



Research on identification of chemical status of surface water bodies of the Dniester river basin

Final report

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List of abbreviations

ToR – Terms of reference

WFD PS - Water Framework Directive Priority Substances, 2013/39/EU

EQSD – Environmental Quality Standards Directive, 2013/39/EU

RBSPs – River Basin Specific Pollutants

DSFP – Digital Sample Freezing Platform

QS – Quality Standards for groundwater (Directive 2006/118/EC)

PNEC – Predicted No Effect Concentration

SDL – Screening Detection Limit

LOD – Limit of Detection

LOQ – Limit of Quantification

AA-EQS – Annual Average - Environmental Quality Standard

MAC-EQS – Maximum Allowable Concentration - Environmental Quality Standard

TV – Threshold Value

FoA – Frequency of Appearance

FoE – Frequency of Exceedance

SP – sampling point

w.w. – wet weight

d.w. – dry weight

LC/GC-HRMS – Liquid / Gas Chromatography-High Resolution Mass Spectrometry

ICP-MS - Inductively Coupled Plasma-Mass Spectrometry



Executive summary

Moldovan-Ukrainian project “Enabling transboundary cooperation and integrated water resources management in the Dniester River Basin” is a GEF-funded project, implemented by the UN Development Programme (UNDP), and executed by the Organization for Security and Co-operation in Europe (OSCE) with guidance from the UN Economic Commission for Europe (UNECE).

One of the main activities of the project is development of the river basin management plan according to the EU Water Framework Directive (WFD). To do so **chemical screening** of the water bodies of the Dniester river basin is to be performed.

The research was conducted in line with the ToR (Annex IV). The sampling was carried out during 25-28 May 2019. 13 surface water samples, 3 biota -fish, and 13 sediment samples (4 out of 9 for chemical screening) were collected.

The main goals of the chemical screening were as follows:

- To perform chemical screening in surface water, biota and sediments samples in order to get the actual view on pollution for Dniester River Basin.
- Identification of a draft list of Dniester River Basin Specific Pollutants (RBSPs; WFD 2000/60/EC) in all three investigated matrices by: (i) wide scope target screening of specific compounds (>2000 compounds, Annex XX) and (ii) suspect screening over 25000 environmentally relevant compounds using a novel tool (DSFP – Digital Sample Freezing Platform) for revealing the presence of suspect and identification of unknown compounds.
- Additional analyses of selected metals in water and sediment samples.

1. Sampling points – characteristics

All 13 sampling points were located along the Dniester River Basin and their GPS characterizations are displayed in Tab. 1. The table also provides the information on which type of matrix was taken at the particular sampling point.

Table1: Sampling sites and their characteristics

Site number	Sampling sites:	Date and time of sampling	Coordinates LAT, LON	Matrix taken for chemical screening/metals analysis
1	Dniester – headwaters, upstream village Vovche, Ukraine	28.05.2019 20:30	N 49°12'18'' E 22°55'9''	W,S
2	Dniester - Zalishchyky, upstream the Dniester reservoir, Ukraine	27.05.2019 15:00	N 48°38'4'' E 25°44'8''	W,B,S*
3	Dniester – downstream Soroki, Moldova/Ukraine	26.05.2019 18:49	N 48°8'27'' E 28°18'14''	W,S
4	Dniester – downstream Rybnitsa/Rezyna or Dubossary reservoir, Moldova	26.05.2019 15:30	N 47°44'38'' E 28°58'37''	W,S
5	Dniester - opposite to Chobruchi village below Tiraspol / Bendery, Moldova	25.05.2019 14:29	N 46°36'1'' E 29°43'17''	W,S*
6	Dniester Lyman – near Belgorod-Dniestrovskiy, Ukraine	25.05.2019 10:00	N 46°8'4'' E 30°22'16''	W,B,S*
7	Bystritsa - downstream Ivano-Frankivsk, Ukraine	28.05.2019 11:45	N 49°1'67'' E 24°48'32''	W,S
8	Tismenitsa – mouth, Ukraine	28.05.2019 15:15	N 49°21'43'' E 23°34'35''	W,S
9	Mohyliv-Podilsky, Ukraine	26.05.2019 21:40	N 48°27'12'' E 27°46'21''	W,S
10	Seret – mouth, Ukraine	27.05.2019 18:00	N 48°37'17'' E 25°51'28''	W,S
11	Byk – mouth (downstream Chisinau wastewater outlet), Moldova	25.05.2019 19:50	N 46°53'26'' E 29°18'12''	W,S
12	Reut – mouth, Moldova	26.05.2019 11:30	N 47°15'8'' E 29°8'7''	W,B,S*
13	Kuchurgan reservoir – Ukraine/Moldova	25.05.2019 8:00	N 46°36'23'' E 29°58'61''	W,S

* - denotes a sediment that has also been used for organic analyses

The spatial distribution of sampling points along the Dniester River Basin is given in Fig.1.

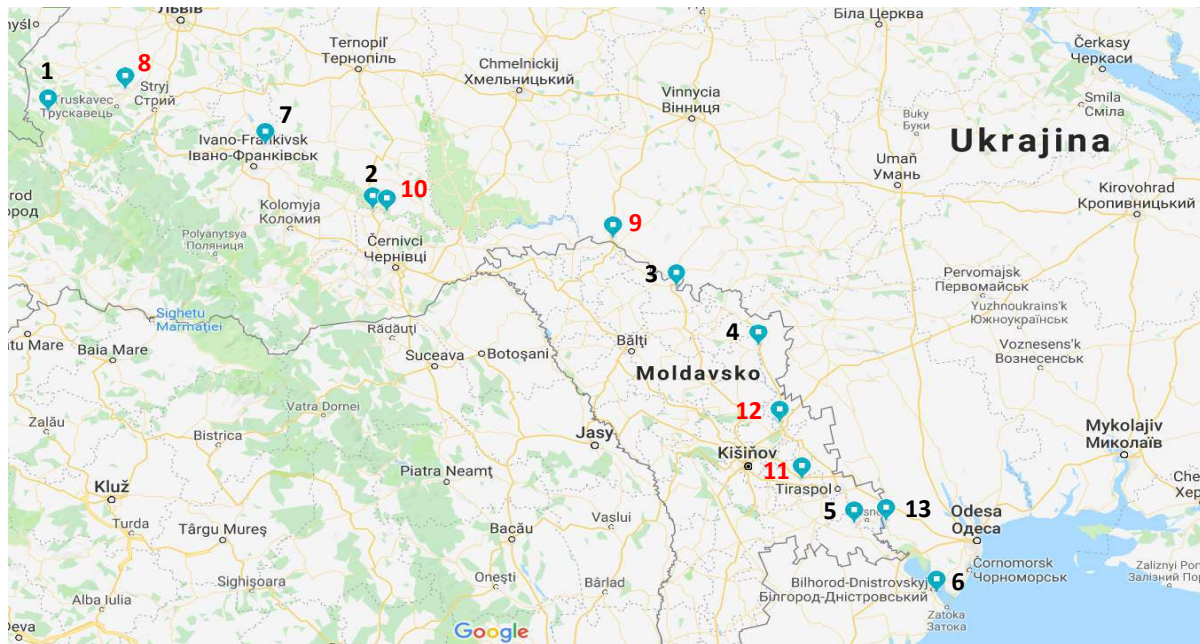


Fig.1 Satellite map of sampling points locations

In total 13 surface water samples were taken for chemical screening as well as for metals analysis, 13 sediments were taken for metals analysis and 4 out of 13 were used for chemical screening, and 3 fish samples were subjected to chemical screening.

2. Metals in surface water and sediment samples

2.1. Introduction

One of the survey tasks was the investigation of pre-selected metals. The selection of metals was in the line with ToR: 13 surface water samples were tested for 5 selected metals, namely As, Hg, Zn, Cu, and Cr. 13 sediments were tested for 8 selected metals, namely As, Hg, Zn, Cu, Cr, Cd, Pb, and Ni.

2.2. Methods

ICP-MS was used for the determination of metals and arsenic after acidification (for surface water) or microwave digestion and dilution (for sediments) and on-line addition of internal standards - ICP-MS accredited according to EN ISO/IEC 17025: 2005

2.3. Surface water samples

The selection of metals to be tested in water samples underlined the main goal of the survey to determine specific pollutants of the Dniester River Basin. **Mercury** was only one that is listed in the Directive 2013/39/EU with its MAC-EQS (0.07 ug/L), as a concentration in the dissolved fraction (after filtration of water samples).

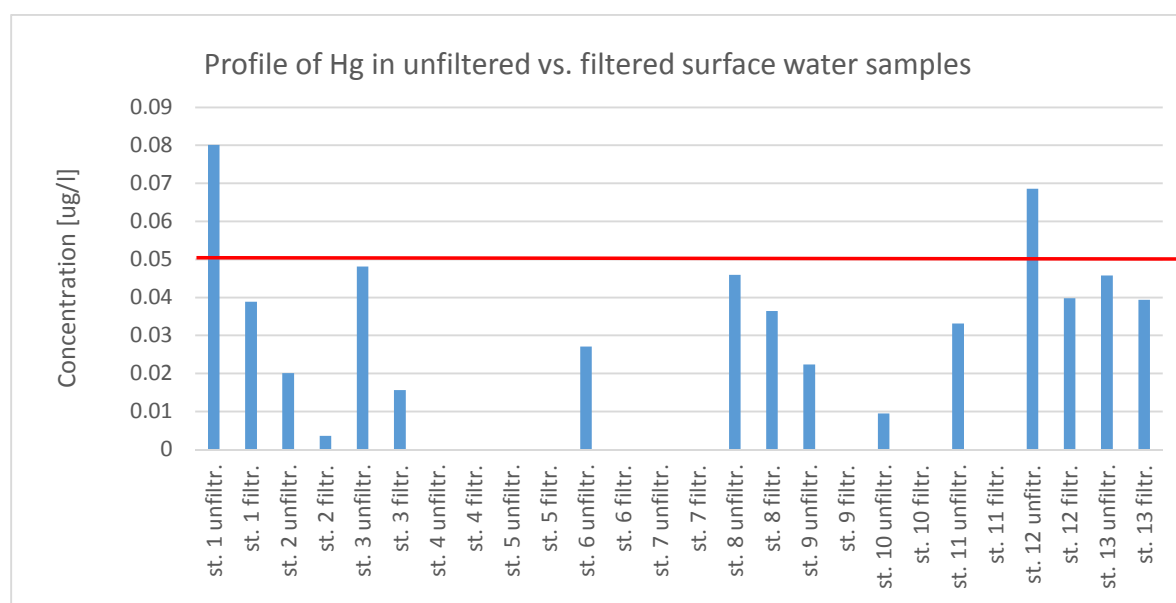


Figure 2: Summary overview of concentrations of mercury as WFD PS (dissolved/filtered and non-dissolved/unfiltered) in the Dniester River water samples. Red line represents AA-EQS for mercury in inland surface water.

The highest presence of mercury (0.08 ug/L) was found in the **Sampling point 1** (Dniester – headwaters, upstream village Vovche, Ukraine) and the second highest concentration of mercury (0.068 ug/L) was registered in the **Sampling point 12** (Reut – mouth, Moldova), however, no one of them after filtration was above AA-EQS for mercury.

The concentration profiles of the others are shown in Fig. 3. The environmental impact of the remaining four metals was evaluated by comparison of their concentration values with existing limits in the Slovak legislation (2013-The Slovak priority compounds).

As:

No one dissolved concentrations in water samples was above the Slovak limit (24 ug/L), the highest presence was found in the **Sampling point 10** (Seret – mouth , Ukraine; **3.52 ug/L**).

Zn:

The dissolved concentrations in two samples were above the Slovak limit (9.6 ug/L), the exceeding concentrations were found in the **Sampling point 11** (Byk–mouth (downstream Chisinau wastewater outlet), Moldova; **52.2 ug/L**) and in the **Sampling point 8** (Tismenitsa-mouth, Ukraine; **15.9 ug/L**), respectively.

Cu:

The dissolved concentrations in seven water samples were above the Slovak limit (1.6 ug/L), the highest exceedance was found in the **Sampling point 11** (Byk–mouth (downstream Chisinau wastewater outlet), Moldova; **5.73 ug/L**).

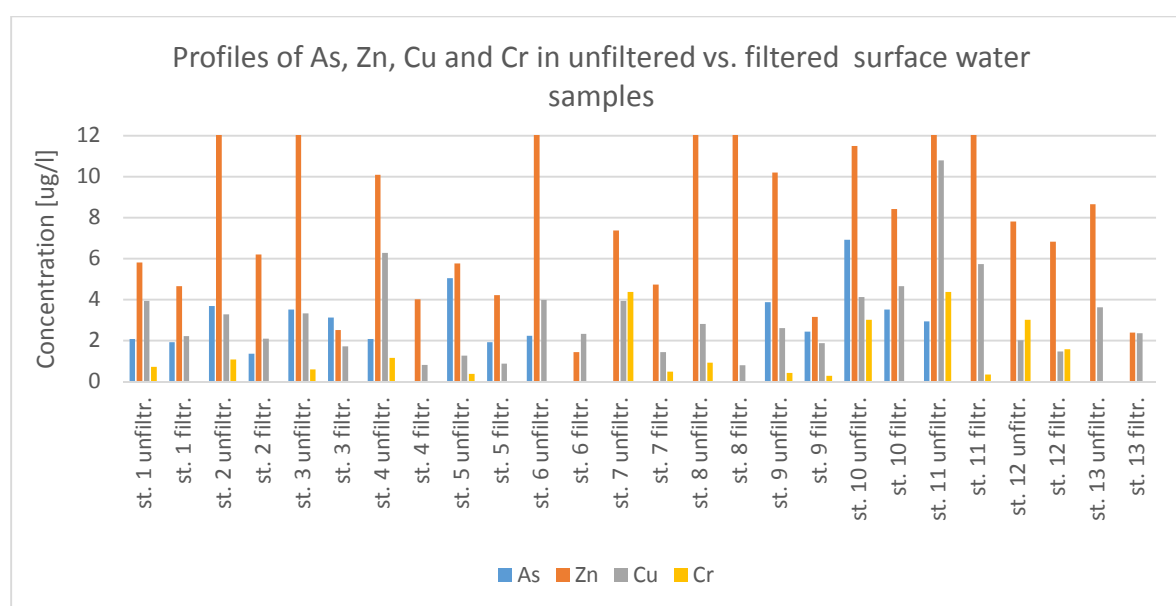


Figure 3: Summary overview of concentrations of selected metals (dissolved/filtered and non-dissolved/unfiltered) in the Dniester River water samples.

Cr:

No one dissolved concentration was above the Slovak limit (9.0 ug/L), the highest value was found in the **Sampling point 12** (Reut – mouth, Moldova; **1.57 ug/L**).

2.4. Sediment samples

The selection of metals in sediment could be divided into two groups: (i) the group of metals listed in the Directive 2013/39/EU and (ii) the group of the others.

WFD metals:

There is no official EQS for sediment and the comparison was done against the sediment standards derived from EQS set for priority substances in water.

Hg:

QS for Rhine sediment was set to 0.67 mg/kg, no exceedance was registered, the highest measured concentration was determined for sediment from the **Sampling point 10** (Seret – mouth , Ukraine; **0.602 mg/kg**).

Cd:

QS for sediment was set to 2.3 mg/kg, no exceedance was registered, the highest measured concentration was determined for sediment from the **Sampling point 13** (Kuchurgan reservoir – Ukraine/Moldova; **0.757 mg/kg**).

The concentration profiles of Hg and Cd are given in Fig.4.

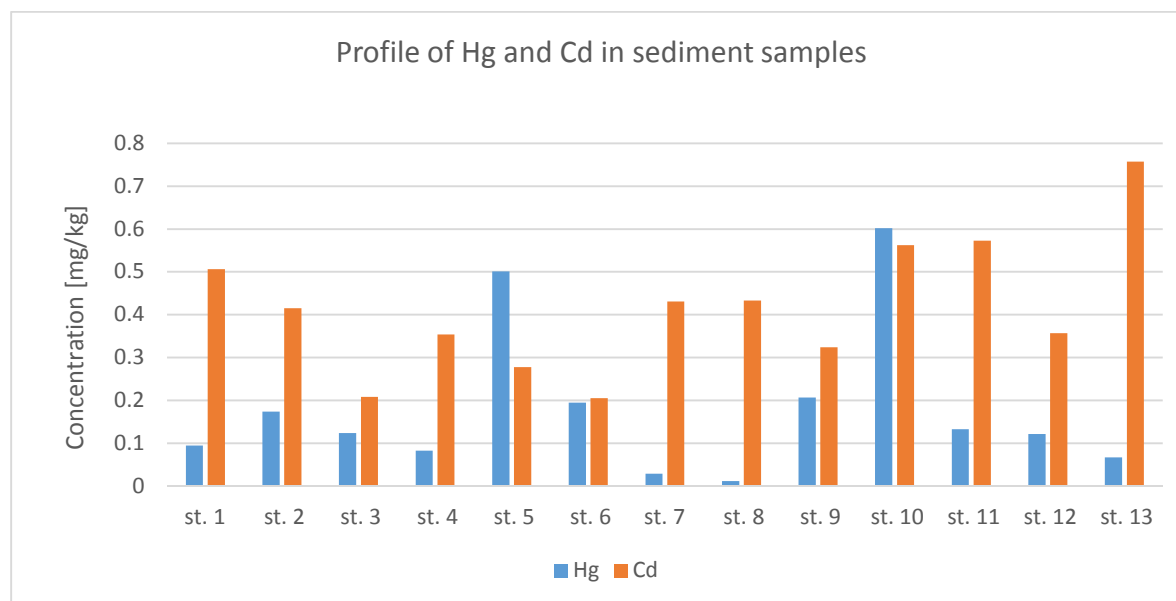


Figure 4: Summary overview of concentrations of Hg and Cd in the Dniester River sediment samples.

Pb:

QS for sediment was set to 53.4 mg/kg, no exceedance was registered, the highest measured concentration was determined for sediment from the **Sampling point 13** (Kuchurgan reservoir – Ukraine/Moldova; **31.7 mg/kg**).

Ni:

QS for sediment was set to 2.9 mg/kg, **all thirteen samples were over its QS**, the highest exceedance was registered for sediment from the **Sampling point 10** (Seret – mouth , Ukraine; **49.5 mg/kg**).

The concentration profiles of Pb and Ni are given in Fig.5.

The others:

The evaluation of metals (As, Zn, Cd, and Cr) belongs to this group was done against to the Dutch legislation for sediments (2001).

As:

QS for sediment was set to 29 mg/kg, no exceedance was registered, the highest measured concentration was determined for sediment from the **Sampling point 12** (Reut – mouth , Moldova; **8.93 mg/kg**).

Zn:

QS for sediment was set to 140 mg/kg, **only one samples was over its QS**, the highest exceedance was registered for sediment from the **Sampling point 11** (Byk–mouth (downstream Chisinau wastewater outlet), Moldova; **167 mg/kg**).

Cu:

QS for sediment was set to 36 mg/kg, no exceedance was registered, the highest measured concentration was determined for sediment from the **Sampling point 11** (Byk–mouth (downstream Chisinau wastewater outlet), Moldova; **26.6 mg/kg**).

Cr:

QS for sediment was set to 100 mg/kg, **2 out of 13 samples were over its QS**, the highest exceedance was observed for sediment from the **Sampling point 10** (Seret – mouth , Ukraine; **108 mg/kg**).

The concentration profiles of all above-mentioned metals are given in Fig.5.

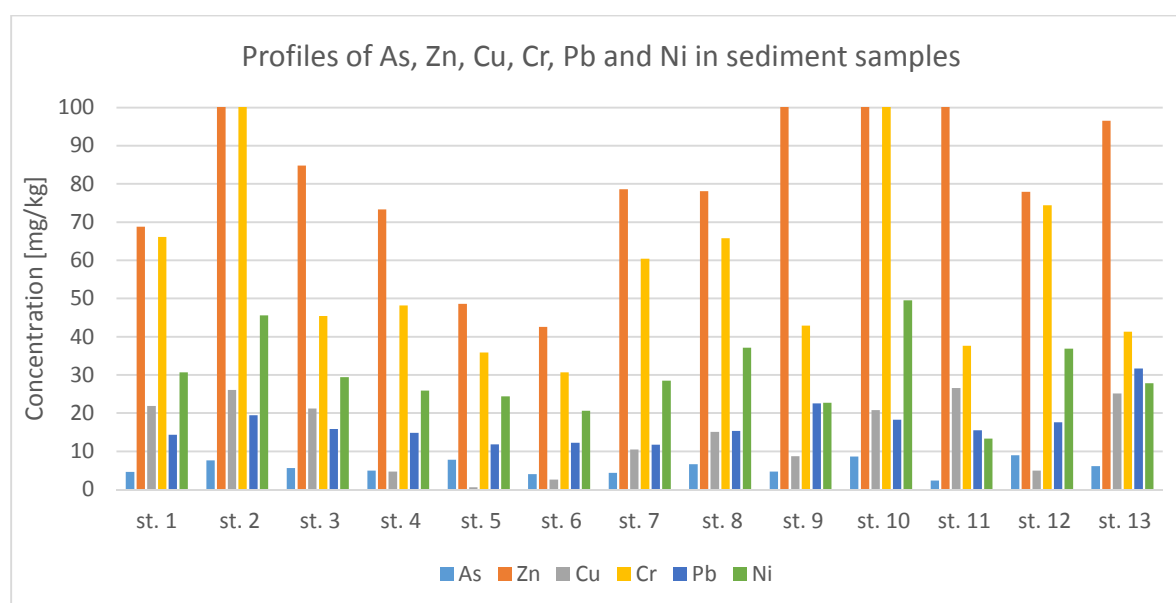


Figure 5: Summary overview of concentrations of As, Zn, Cu, Cr, Pb, and Ni in the Dniester River sediment samples.

3. Target, suspect and non-target screening surface water, biota and sediment samples by LC-HR-MS and LC-MS/MS techniques in the Dniester River Basin

3.1. Introduction

13 surface water, 4 sediment and 3 biota samples were subjected to wide-scope screening:

- target (2016 substances, see in Annex II), and
- non-target suspect (6152 SusDat) screening.

The obtained results could provide a possible basis for development of the list of the Dniester River Basin Specific Pollutants (DRBSPs).

3.2. Methods

The following analytical methods were applied.

1. LC-ESI-QTOF-MS (for suspect / non-target screening) analyses were conducted using an ultra high-performance liquid chromatographic (UHPLC) system with a HPG-3400 pump (Dionex Ultimate 3000 RSLC, Thermo Fischer Scientific, Dreieich, Germany) coupled to a QTOF mass spectrometer (Maxis Impact, Bruker Daltonics, Bremen, Germany).

Chromatographic separation was performed using an Acclaim RSLC C18 column (2.1 x 100 mm, 2.2 μm) from Thermo Fischer Scientific (Dreieich, Germany) preceded by a guard column of the same packaging material, thermostated at 30°C. For positive ionization mode (PI), the mobile phases were water/methanol 90/10 (solvent A) and methanol (solvent B) both containing 5 mM ammonium formate and 0.01% formic acid. For negative ionization mode (NI), the mobile phases consisted of water/methanol (solvent A) and methanol (solvent B) both acidified with 5 mM ammonium acetate. The adopted gradient elution programme was the same for both ionization modes, starting with 1% B with a flow rate of 0.2 mL min⁻¹ for 1 min and it increased to 39% in 2 min (flow rate 0.2 mL min⁻¹), and then to 99.9 % (flow rate 0.4 mL min⁻¹) in the following 11 min. Then, it was kept constant for 2 min (flow rate 0.48 mL min⁻¹), then the initial conditions were restored within 0.1 min, kept for 3 min and then the flow rate decreased to 0.2 mL min⁻¹. The injection volume was 5 μL .

The QTOF-MS system was equipped with an electrospray ionization interface (ESI), operating in positive and negative mode, with the following operation parameters: capillary voltage 2500 V (PI) and 3500 V (NI); end plate offset, 500 V; nebulizer pressure 2 bar; drying gas 8 L min⁻¹ and gas temperature 200°C. The QTOF-MS system was operated in data-independent (broadband collision-induced dissociation (bbCID)) acquisition, as well as in data dependent (Auto MS/MS) acquisition mode and recorded spectra over the range m/z 50–1200, with a scan rate of 2 Hz. A QTOF-MS external calibration was performed daily with the manufacturer's solution. The instrument provided a typical resolving power (FWHM) between 36,000-40,000 at m/z 226.1593, 430.9137 and 702.8636.

The Screening Detection Limit (SDL) was reported for the contaminants that were determined by the wide-scope LC-QToF-MS screening method. The SDL is established as the

lowest concentration level tested for which a compound is detected in all spiked samples, at the expected retention time and with specific mass error of the precursor ion. In the in-house developed method, the SDL was established as the concentration level at which the thresholds of (i) retention time and (ii) mass accuracy of the precursor ion were satisfied. The SDL is not compound-specific, but a generic reporting value derived after method validation. Thus, the SDL for the compounds included in the database of this screening method is 0.63 ng/L in surface water, and 5 and 1.25 µg/kg for sediment and biota, respectively. For the compounds detected with the screening method, a further thorough compound-specific validation was performed for quantitation purposes. Spiked samples, with the detected compounds and structure-related isotope labeled compounds (IS), were treated with the same method and analyzed. Compound-specific LOD and LOQ values and recoveries were calculated and all detected contaminants were quantitatively determined by the standard addition method with IS.

In order to evaluate the risk of a compound at a polluted site, or to determine its overall priority in the context of other pollutants, ecotoxicity threshold values, often referred to as Predicted No-Effect Concentrations (PNECs) were used. The PNECs used in this survey were derived by the NORMAN expert group, based on raw ecotoxicity data (www.norman-network.net).

2. **LC-ESI-MS/MS (for target screening)** analyses were conducted by a Thermo UHPLC Accela system interfaced with a Thermo TSQ Quantum Access Triple Quadrupole Instrument (Thermo, San Jose, CA, USA).

Wide-scope screening

An X-Bridge C18 column (2.1 x 50 mm, 2.5 µm) from WATERS (Dublin, Ireland) preceded by a guard column was used at a constant flow of 100 µL min⁻¹, thermostated at 30°C. The mobile phases consisted of water containing 0.1 % formic acid (v/v) (solvent A) and methanol (solvent B). The gradient program was initialized with 50% B, increased to 100% B in 9 min and then it kept constant for 3 min. Afterwards, the initial conditions were restored within 1.5 min and kept constant for 3.5 min. The injection volume was set up to 5 µL. The ESI probe was operated in Positive Ionization. ESI voltage was set at 4000 V. The sheath gas (N₂) flow rate was set at 40 A.U (Arbitrary Units), the auxiliary gas (N₂) flow rate was set at 20 A.U and the ion transfer capillary temperature was set at 270° C. Data acquisition was performed in multiple reaction monitoring (MRM) mode.

3.3. Results of target screening

3.3.1. Surface water samples

13 surface water extracts were subjected to analysis with the wide-scope target LC-MS/MS method, screening of 2016 reference compounds from various groups such as pharmaceuticals, pesticides, personal care products, industrial pollutants, drugs of abuse, flame retardants etc. **The compounds detected in at least one sample are listed in Annex III, where are highlighted in red those have been detected above their PNEC values.**

In total **108** out of 2016 compounds were detected in at least one surface water sample. The highest number of detected compounds (**71**) was observed in the sample from **Sampling site 11** (Byk–mouth (downstream Chisinau wastewater outlet), Moldova).

The environmental impact of those **108** compounds was evaluated by comparison with their **Predicted No Effect Concentration** (PNEC) values if exists. The PNEC is the concentration of a chemical which marks the limit at which below no adverse effects of exposure in an ecosystem are measured. The second parameter is the frequency of appearance (FoA), the higher the upper rank in the list of DRBSPs. The third parameter that was taken into account was the number of exceedance for the particular compound (in bracket).

The highest concentrations (>1000 ng/l or above PNEC) were observed for **Lidocaine-N-oxide** (pharmaceuticals, PNEC ?, 7708 ng/l - **SP 11, FoA 23%**), **Carbaryl** (pesticides, PNEC 230 ng/l , **5601 ng/l - SP 9, FoA 38%, (2)**), **Metolachlor** (pesticides, PNEC 8270 ng/l , 4612 ng/l - **SP 9, FoA 92%**), **Fluconazole** (pharmaceuticals, PNEC 1040 ng/l , **3390 ng/l - SP 11, FoA 31%**), **Caffeine** (stimulants, PNEC 1200 ng/l , **2984 ng/l - SP 8, FoA 77%**), **Ephedrine-Nor** (illicit drugs, PNEC ?, 2633 ng/l - **SP 11, FoA 62%**), **Terbutylazine** (pesticides, PNEC 60 ng/l , **2514 ng/l - SP 9, FoA 77%, (3)**), **Carbamazepine** (pharmaceuticals, PNEC 50 ng/l, **1981 ng/l - SP 11, FoA 38%, (3)**), **Sulfamethoxazole** (pharmaceuticals, PNEC 600 ng/l, **1229 ng/l - SP 11, FoA 15%**). **Diuron** (pesticides, PNEC 200 ng/l , **1179 ng/l - SP 11, FoA 7.7%**) – listed in the Directive 2013/39/EU.

Detected compounds at concentrations exceeding their PNEC values that may pose a risk for the environment are as follows. **Carbendazim** (pesticides, PNEC 150 ng/l , **755 ng/l - SP 11, FoA 69%**), **Propazine-2-hydroxy** (pesticides, PNEC 70 ng/l , **608 ng/l - SP 9, FoA 69%**), **Acetochlor** (pesticides, PNEC 13 ng/l, **238 ng/l - SP 4, FoA 23%, (3)**), **Triclosan** (pharmaceuticals, PNEC 20 ng/l, **159 ng/l - SP 11, FoA 15%, (2)**), **Dimethoate** (pesticides, PNEC 70 ng/l, **85.2 ng/l - SP 11, FoA 15%**), **Omethoate** (pesticides, PNEC 4 ng/l, **43.2 ng/l - SP 11, FoA 15%**), **Nicosulfuron** (pesticides, PNEC 9 ng/l, **32.5 ng/l - SP 12, FoA 15% (2)**), **Fipronil** (pesticides, PNEC 0.77 ng/l, **3 ng/l - SP 11, FoA 7%**), **Metazachlor** (pesticides, PNEC 20 ng/l, **28.5 ng/l - SP 10, FoA 7%**), and **Telmisartan** (pharmaceuticals, PNEC 0.55 ng/l, **105 ng/l - SP 11, FoA 15%**).

The compounds observed at concentrations higher than their PNEC values, with high FoA and Frequency of Exceedance (FoE) are the most likely candidates for being in the list of DRBSPs.

3.3.2. Sediment samples

4 sediment extracts were subjected to analysis with the wide-scope target LC-MS/MS method, screening more than 2000 reference compounds from various groups such as pharmaceuticals, pesticides, personal care products, industrial pollutants, drugs of abuse, flame retardants etc. **The compounds detected in at least one sample are listed in Annex III.**

In total **10** out of 2016 compounds were detected in at least one surface water sample. The highest number of detected compounds (**8**) was observed in the sample from **Sampling site**

2 (Dniester - Zalishchyky, upstream the Dniester reservoir, Ukraine). Only this sampling site was positive on three pesticides and two of them also were above their PNEC for sediment.

Carbendazim (pesticides, PNEC 1.9 ug/kg , **141 ug/kg - SP 2**) and **Azoxystrobin** (pesticides, PNEC 11.5 ug/kg , **12 ug/kg - SP 2**).

All detected compounds determined at concentration levels above or close to their PNECs should be considered for further investigative monitoring.

3.3.3. Fish samples

3 fish extracts were subjected to analysis with the wide-scope target LC-MS/MS method, screening more than 2000 reference compounds from various groups such as pharmaceuticals, pesticides, personal care products, industrial pollutants, drugs of abuse, flame retardants etc. **The compounds detected in at least one sample are listed in Annex III.**

In total **2** out of 2016 compounds were detected in at least one surface water sample. The highest number of detected compounds (**2**) was observed in the sample from **Sampling site 12** (Reut – mouth, Moldova).

Tolycaine (pharmaceuticals, PNEC 259 ug/kg , **70 ug/kg - SP 12**).

All detected compounds determined at concentration levels above or close to their PNECs should be considered for further investigative monitoring.

3.4. Results of suspect / non-target screening

Suspect / non-target screening was performed using LC-HR-MS methods with archiving all raw chromatograms into Digital Sample Freezing Platform.

3.4.1. Methods

The averaged peaks of the calibrant substance were used to recalibrate the whole chromatogram using HPC fitting algorithm, which is embedded in DataAnalysis 4.3. (Bruker Daltonics, Bremen, Germany). This calibration method ensures mass accuracy below 2 mDa during whole chromatographic run for m/z from 50-1200. For exporting files in mzML format, CompassXport 3.0.9.2. (Bruker Daltonics, Bremen, Germany) was used. Chromatograms acquired under data-independent acquisition (termed as 'bbCID' in Bruker instrument) were separated in low and high collision energy layer chromatograms. All mzML files and their meta-data (instrumental, sample meta-data, matrix-specific meta-data and retention time of RTI calibrant substances) were uploaded to Digital Samples Freezing Platform (DSFP; <http://www.norman-data.eu/>). DSFP has integrated standard operating procedure (SOP) to process the mzML files and all meta-data for the generation of Data Collection Templates (DCTs). This data reduction technique resulted in an automatic generation of DCTs, which includes condensed information from LC-HR-MS files information.

3.4.2. Results and discussion

Once all samples from the sampling campaign were uploaded to DSFP, the batch-mode screening module was used to screen SusDat substances (<https://www.norman-network.com/nds/susdat/>) with experimental fragment information available. In total, 6152 compounds were screened (5459 in positive ESI & 2352 in negative ESI; 1659 compounds both positively and negative ionized). Compounds with match of at least 3 fragments were considered as possible structure (Level 2A) unless otherwise stated (tentative structure-Level 3). 34 substances were tentatively identified (**Table 2**) after the exclusion of target substances and natural occurring substances (fatty acids, amino acids, vitamins, oligoamino acids and nucleosides), since they do not exert any hazard to the ecosystem.

Table 2. Tentatively identified emerging contaminants in Dniester samples. The table includes the compound name, ionization, identification level, molecular formula, CAS number and Std InChIKey.

Compounds	Ion	Ident. level	Molecular Formula	CAS	Std InChIKey
N-butylbenzenesulfonamide	+	2A	C10H15N1O2S1	3622-84-2	IPRJXAGUEGOFGG-UHFFFAOYSA-N
Lauramine oxide	+	2A	C14H31N1O1	1643-20-5	SYELZBGXAIXKHU-UHFFFAOYSA-N
Glutaric acid	+	3	C5H8O4	110-94-1	JFCQEDHGNNZCLN-UHFFFAOYSA-N
N,N-bis(2-hydroxyethyl)dodecanamide	+	2A	C16H33N1O3	120-40-1	AOMUHOFOVNGZAN-UHFFFAOYSA-N
Dimethyl sebacate	+	3	C12H22O4	106-79-6	ALOUNLDAKADEEB-UHFFFAOYSA-N
Glycerol monostearate	+	2A	C21H42O4	31566-31-1	VBICKXHEKHSIBG-UHFFFAOYSA-N
6-methylbenzotriazole	+	3	C7H7N3	136-85-6	LRUDIIUSNGCQKF-UHFFFAOYSA-N
Tetradecylamine	+	2A	C14H31N1	2016-42-4	PLZVEHJLHYMBBY-UHFFFAOYSA-N
Pyrimidinol	+	2A	C8H12N2O1	2814-20-2	AJPIUNPJBFBUKK-UHFFFAOYSA-N
DDAO	+	2A	C12H27N1O1	2605-79-0	ZRKZFNZPJKEWPC-UHFFFAOYSA-N
Aspirin	+	3	C9H8O4	11126-35-5	BSYNRYMUTXBXSQ-UHFFFAOYSA-N
12-aminododecanoic acid	+	2A	C12H25N1O2	693-57-2	PBLZLIFKVPJDCO-UHFFFAOYSA-N
Tributylphosphate	+	3	C12H27O4P1	80094-39-9	STCOOQWBFONSKY-UHFFFAOYSA-N
TBEP (Tris(2-butoxyethyl) Phosphate)	+	3	C18H39O7P1	78-51-3	WTLBZVNBKAMVDP-UHFFFAOYSA-N
Hymecromone	+	2A	C10H8O3	90-33-5	HSHNITRMYYLLCV-UHFFFAOYSA-N
Gabapentin Related Compound E	+	2A	C9H14O4	67950-95-2	SDAXMMUAZRWNLUHFFFAOYSA-N
2-(2-(2-butoxyethoxy)ethoxy)ethanol	+	2A	C10H22O4	143-22-6	COBPKKZHLDDMTB-UHFFFAOYSA-N
2-Imidazol-4-ylethylamine	+	2A	C5H9N3	51-45-6	NTYJJOPFIAHURM-UHFFFAOYSA-N
8-Hydroxychinolin	+	3	C9H7N1O1	1127-45-3	MCJGNVYPOGVAJF-UHFFFAOYSA-N
Minoxidil	+	2A	C9H15N5O1	38304-91-	ZFMITUMMTDLWHR-

				5	UHFFFAOYSA-N
Telbivudine	+	2A	C10H14N2O5	3424-98-4	IQFYKKMVGJFEH-C5MHCCOUSA-N
Diethanolamine	+	2A	C4H11N1O2	111-42-2	ZBCBWPMODOFKDW-UHFFFAOYSA-N
Viloxazine	+	2A	C13H19N1O3	46817-91-8	YWPHCCPCQOJSGZ-UHFFFAOYSA-N
Anethole	+	3	C10H12O1	104-46-1	RUVINXPYWBROJD-ONEGZZNKSA-N
4-Phenylbutenone	+	2A	C10H10O1	122-57-6	BWHOZHOGCMHOBV-BQYQJAHWSA-N
Dimethyl cyclohexane-1,4-dicarboxylate	+	2A	C10H16O4	94-60-0	LNGAGQAGYITKCW-UHFFFAOYSA-N
Methyl-3-methoxyacrylate	+	2A	C5H8O2	5788-17-0	UIERETOOQGIECD-ONEGZZNKSA-N
N-formylmethamphetamine	+	3	C11H15N1O1	42932-20-7	GLSMSUZWTDVJMA-UHFFFAOYSA-N
Sulfamethoxazole-PtO	+	2A	C17H15N7O5S1	NA	ZTEDFROSGMEYCI-UHFFFAOYSA-N
Heptanophenone	+	2A	C13H18O1	1671-75-6	UXMQORVHJMUQFD-UHFFFAOYSA-N
Butanedioic acid, hydroxy-	-	2A	C4H6O5	6915-15-7	BJEPYKJPYRNKOW-UHFFFAOYSA-N
2-Furoic acid	-	3	C5H4O3	88-14-2	SMNDYUVBFMFKNZ-UHFFFAOYSA-N
Bisphenol S	-	2A	C12H10O4S1	80-09-1	VPWNQTHUCYMVMZ-UHFFFAOYSA-N
2-Amino-4-methylpyrimidine	-	2A	C5H7N3	108-52-1	GHCFWKFRBNSPC-UHFFFAOYSA-N

Two major classes of emerging contaminants were detected by wide-scope suspect screening; (i) **industrial chemicals**, including plasticizers, food additives and surfactants and (ii) **pharmaceuticals**, including antidepressants (Figure 6).

- (i) 7 plasticizers were detected (dimethyl sebacate, N-butylbenzenesulfonamide, Tris(2-butoxyethyl) phosphate and Tributylphosphate, Glutaric acid, 6-methylbenzotriazole and Bisphenol S). All of them having remarkable occurrence and very high frequency of appearance (FoA above 50%). The only exception to this trend was Bisphenol S, which was detected in one surface water samples at sampling station 11 "Bulboaca". Moreover, chemicals used as additives in industry were detected. For example, chemicals added because of their anti-microbial activity (2-Furoic acid and 8-hydroxyquinoline) and additives used in food industry (Glycerol monostearate, butanedioic acid and Anethole) were also detected. Glycerol monostearate was the most frequently detected substance in all investigated matrices (river water, biota and sediment from river), whereas rest compounds were detected scarcely. Finally, from the category of industrial chemicals, 5 surfactants were tentatively identified (Tetradecylamine, Diethanolamine, 2-(2-(2-butoxyethoxy) ethoxy)ethanol, lauramine oxide, DDAO and N,N-bis(2-hydroxyethyl)dodecanamide) with N,N-bis(2-hydroxyethyl)dodecanamide and DDAO having high FoA.

- (ii) From the category of detected pharmaceuticals, 6 compounds were detected from various therapeutic classes: Hymecromone (bile curcation), Telbivudine (antiviral drug), aspirin (analgesic), N-formyl methamphetamine and Viloxazine (antidepressants) and Minoxidil (cosmetic pharmaceutical).

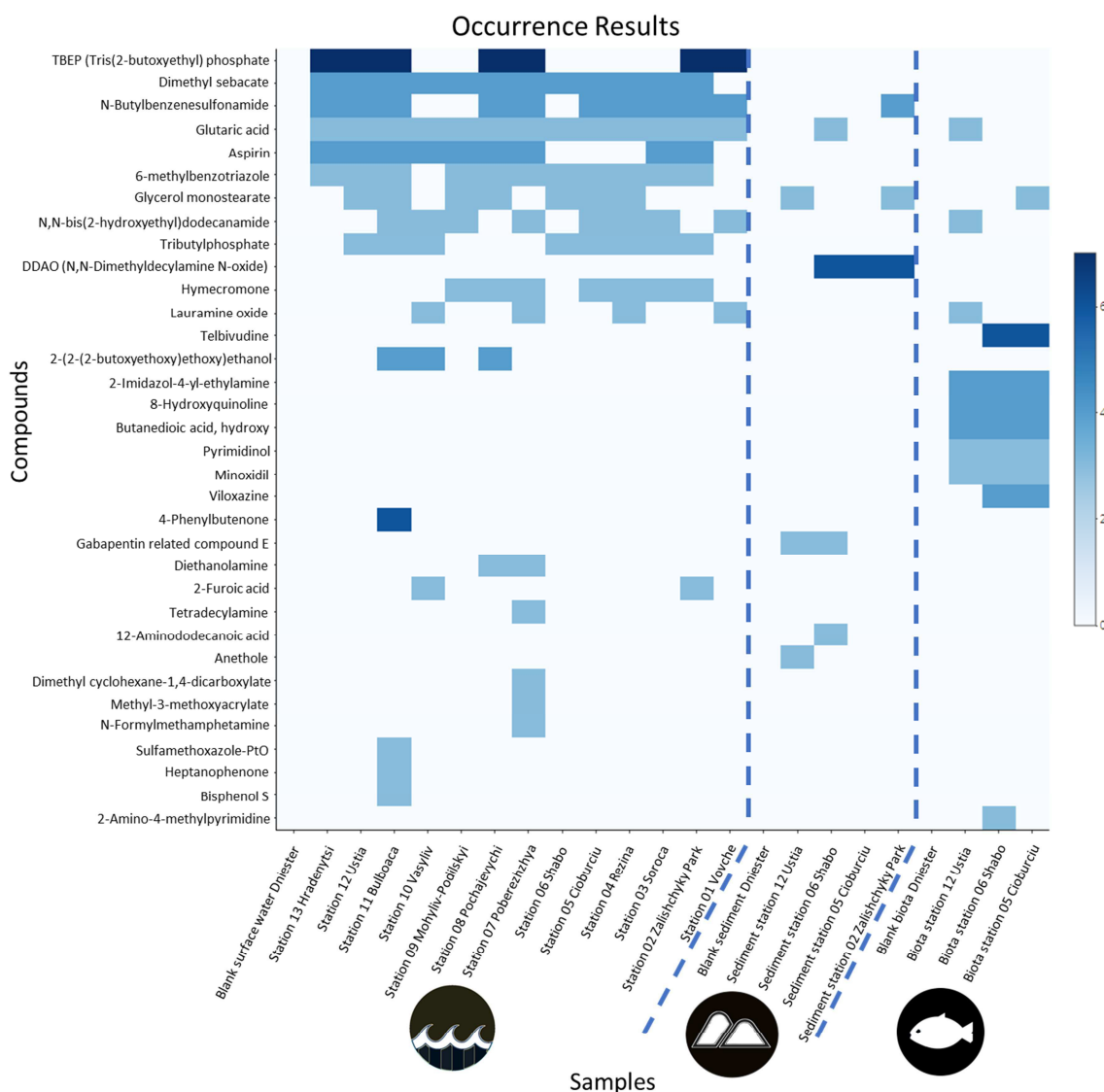


Figure 6. Detected emerging substances by wide-scope suspect screening and samples in which they were detected. Color coding indicates number of detected qualifier fragment ions.

Table 3. Tentatively identified naturally occurring substances in Dniester samples. The table includes the compound name, ionization, identification level, molecular formula, CAS number and Std InChIKey.

Compounds	Ioniz.	Ident. level	Molecular Formula	CAS	Std InChIKey
13-Docosenamide, (Z)-	+	2A	C22H43N1O1	112-84-5	UAUDZVJPLUQNMU-KTKRTIGZSA-N
Oleamide	+	2A	C18H35N1O1	301-02-0	FATBGEAMYMYZAF-UHFFFAOYSA-N
Ethyl-2-amino-1-cyclohexene-1-carboxylate	+	2A	C9H15N1O2	1128-00-3	JBZVWABPSHNPIC-UHFFFAOYSA-N
5-Aminovaleric acid	+	3	C5H11N1O2	660-88-8	JJMDCOVWQJGCB-

					UHFFFAOYSA-N
Colecalciferol	+	3	C27H44O1	67-97-0	QYSXJUF SXHHAJI-FVUVGDFOSA-N
Oleoyl ethylamide	+	2A	C20H39N1O1	85075-82-7	JZYCYFGXPUMF-QXMHVHEDSA-N
3-(2-Hydroxyethyl)indole	+	2A	C10H11N1O1	526-55-6	MBBOMCVGYCRMEA-UHFFFAOYSA-N
Hexadecanamide	+	2A	C16H33N1O1	629-54-9	HSEMFIWZXHQJAE-UHFFFAOYSA-N
3-Methylcyclopentadecan-1-one.	+	2A	C16H30O1	541-91-3	ALHUZKCOMYUFRB-UHFFFAOYSA-N
Phenylalanine	+ and -	3	C9H11N1O2	150-30-1	COLNVLDHV KWLRT-UHFFFAOYSA-N
Glyceryl oleate	+	2A	C21H40O4	111-03-5	RZRNAYUHWVFMIP-UHFFFAOYSA-N
Isoleucine	+	3	C6H13N1O2	73-32-5	AGPKZVBTJJNPAG-WHFBIAKZSA-N
Decanamide	+	2A	C10H21N1O1	2319-29-1	TUTWLYPCGCUWQI-UHFFFAOYSA-N
Pantothenic acid	+ and -	2A	C9H17N1O5	79-83-4	GHOKWGTUZEJQAD-UHFFFAOYSA-N
Guanine	+	2A	C5H5N5O1	73-40-5	UYTPUPDQBNUYGX-UHFFFAOYSA-N
D-Alanine methyl ester	+	3	C4H9N1O2	80-32-5	DWKPPFQULDPWHX-GSVOUGTGSA-N
18-HETE	+	3	C20H32O3	133268-58-3	PPCHNRUZQWLEMF-XBOCNYGYSA-N
Xanthine	+ and -	2A	C5H4N4O2	69-89-6	LRFVTYWOQMYALW-UHFFFAOYSA-N
Tryptophan	+ and -	2A	C11H12N2O2	73-22-3	QIVBCDIJAJPQS-VIFPVQESA-N
Methionin	+	3	C5H11N1O2S1	59-51-8	FFEARJCKVFRZRR-UHFFFAOYSA-N
N-amidinosarcosine	+	2A	C4H9N3O2	57-00-1	CVSVTCORWBXHQV-UHFFFAOYSA-N
2-Hydroxyphenylalanine	+	3	C9H11N1O3	2370-61-8	WRFPVMFCRNYQNR-UHFFFAOYSA-N
2'-Deoxyadenosine	+	3	C10H13N5O3	958-09-8	OLXZPDWKRNYYJZ-RRKCRQDMSA-N
Muramic acid	+	2A	C9H17N1O7	1114-41-6	MSFSPUZXLGKHJ-UHFFFAOYSA-N
L-Valine	+	3	C5H11N1O2	516-06-3	KZSNJWFQEVHDMF-UHFFFAOYSA-N
Lysine	+	2A	C6H14N2O2	56-87-1	KDXKERN SBIXSRK-UHFFFAOYSA-N
Glucose	+	2A	C6H12O6	50-99-7	WQZGKKKJIFFOK-UHFFFAOYSA-N
Citrulline	+	2A	C6H13N3O3	372-75-8	RHGKLRLOHDJJDR-UHFFFAOYSA-N
2-aminohexanedioic acid	+	3	C6H11N1O4	1118-90-7	OYIFNHCXNCRBQI-UHFFFAOYSA-N
N-Acetylserotonin	+	3	C12H14N2O2	1210-83-9	MVAWJSIDNICKHF-UHFFFAOYSA-N
Leucylproline	+	3	C11H20N2O3	6403-35-6	VTJUNIYRYIAIHF-IUCAKERBSA-N
(2S,3S)-(-)-3-Phenylglycidol	+	3	C9H10O2	104196-23-8	PVALSANGMFRTQM-

					IUCAKERBSA-N
2-(2,3-Dihydro-1,4-benzodioxin-6-yl)-2-phenylethylamine	+	2A	C16H17N1O2	CAS_RN:	PZCVDWCXOZQXQS-UHFFFAOYSA-N
Acetyllysine	+	3	C8H16N2O3	692-04-6	DTERQYGMUDWYAZ-UHFFFAOYSA-N
Piperine	+	2A	C17H19N1O3	94-62-2	MXXWOMGUGJBKIW-YPCIICBESA-N
Hydroxyproline	+	3	C5H9N1O3	51-35-4	PMMYEEVYMWASQN-UHFFFAOYSA-N
N3,N4-Dimethyl-L-arginine	+	2A	C8H18N4O2	30344-00-4	HVPFXCBJHIIJGS-LURJTMIESA-N
Tropine	+	2A	C8H15N1O1	120-29-6	CYHOMWAPJPNMW-JIGDXULJSA-N
1,2,3,4-Tetramethyl-1,3-cyclopentadiene	+	2A	C9H14	4249-10-9	VNPQQEYMXCAEZ-UHFFFAOYSA-N
L-Tyrosine methyl ester	+	3	C10H13N1O3	1080-06-4	MWZPENIJLUWBSY-VIFPVBQESA-N
2-(4-Methoxyphenoxy)ethanamine	+	3	C9H13N1O2	CAS_RN:	YXRCDWIZAGWUBL-UHFFFAOYSA-N
Ethyl 3-oxo-2-azabicyclo[2.2.2]octane-4-carboxylate	+	3	C10H15N1O3	CAS_RN:	ICSDOPIVXXHFP-UHFFFAOYSA-N
α-Eleostearic acid	+	3	C18H30O2	506-23-0	CUXYLFPMQMFGL-WPOADVJFSA-N
Adipic acid	+	3	C6H10O4	124-04-9	WNLRTBMRVJNCN-UHFFFAOYSA-N
(4R-(4a,4aa,6b))-4,4a,5,6,7,8-Hexahydro-4,4a-dimethyl-6-(1-	+	2A	C15H22O1	4674-50-4	WTOYNNBCKUYIKC-UHFFFAOYSA-N
Prostaglandin B1	+	3	C20H32O4	13345-51-2	YBHMPNRDOVPQIN-VSOYFRJCSA-N
Purine	+	2A	C5H4N4	120-73-0	KDCGOANMDULRCW-UHFFFAOYSA-N
Spermine	+	2A	C10H26N4	71-44-3	PFNFFQXMRSDOHW-UHFFFAOYSA-N
(3,4-Dimethoxyphenyl)acetic acid	+	3	C10H12O4	93-40-3	WUAXWQRULBZETB-UHFFFAOYSA-N
trans retinal	+	2A	C20H28O1	116-31-4	NCYCYZXNIZJOKI-OVSJKPMPSA-N
Sakuranetin	+	2A	C16H14O5	2957-21-3	DJOJDHGGQRNZXQQ-UHFFFAOYSA-N
Benzyl N-[2-hydrazino-1-(1H-imidazol-4-ylmethyl)-2-oxoethyl]carbamate	+	3	C14H17N5O3	CAS_RN:	BOOAASJRVZJWJW-UHFFFAOYSA-N
4-[(4-Chlorophenethyl)amino]-4-oxobut-2-enoic acid	+	2A	C12H12Cl1N1O3	CAS_RN:	ASNQTQOSQYVBIAAATRIKPKSA-N
4-((4Z,6E)-5,7-Dimethyl-2,3-dihydro-1H-1,4-diazepin-6-yl)morpholine	+	2A	C11H19N3O1	CAS_RN:	PXRGVBBTRJVKTC-UHFFFAOYSA-N
Cannabichromene	+	3	C21H30O2	20675-51-8	UVOLYTDXHDWJU-UHFFFAOYSA-N
(2E,4E)-Hepta-2,4-dienal.	+	2A	C7H10O1	4313-03-5	SATICYYAWWYRAM-VNKDHWASSA-N
2,3-dihydro-1H-indole	+	2A	C8H9N1	496-15-1	LPAGFVYQRIESJQUHFFFAOYSA-N
2-Imino-1-methylimidazolidin-4-one	+	2A	C4H7N3O1	60-27-5	DDRJAANPRJIHGJ-UHFFFAOYSA-N

Erythrono-1,4-lactone	-	3	C4H6O4	15667-21-7	SGMJBNSHAZVGMCUHFFFAOYSA-N
3-hydroxybenzoic acid	-	3	C7H6O3	NA	IJFXRHURBJZNAOUHFFFAOYSA-N
L-Glutamic acid	-	3	C5H9N1O4	617-65-2	WHUUTDBXJRKMKUHFFFAOYSA-N
acid D,L-aspart	-	2A	C4H7N1O4	617-45-8	CKLJMWTZIZZHCSUHFFFAOYSA-N
Acetyl glutamine	-	2A	C7H12N2O4	35305-74-9	KSMRODHGGIIXDVUHFFFAOYSA-N
3,3-Dimethylglutaric acid	-	3	C7H12O4	4839-46-7	DUHQIGLHYXLKAEUHFFFAOYSA-N
3-Amino-3-(4-hydroxyphenyl)propanoic acid	-	3	C9H11N1O3	6049-54-3	JYPHNHPXFNEZBRUHFFFAOYSA-N
Threonine	-	3	C4H9N1O3	80-68-2	AYFVYJQAPQTCCCGBXIJSLSA-N
L-serine	-	2A	C3H7N1O3	302-84-1	MTCFGRXMJLQNBGUHFFFAOYSA-N
Acetylmethionine	-	3	C7H13N1O3S1	1115-47-5	XUYPLXNMDZIRQHZCFIWIWBFSA-N
Glutamine	-	2A	C5H10N2O3	56-85-9	ZDXPYRJPNDTMRXUHFFFAOYSA-N
Guanosine	-	2A	C10H13N5O5	118-00-3	NYHBQMYGNKIUIFUHFFFAOYSA-N
Glyceryl phosphate	-	2A	C3H9O6P1	1555-56-2	AWUCVROLDVIAJXUHFFFAOYSA-N
3'-AMP phosphate	-	3	C10H14N5O7P1	NA	LNQVTSROQXJCDDKQYNXXCUSA-N
1,5-Anhydro-D-glucitol	-	3	C6H12O5	154-58-5	MPCAJMNYNOGXPSLPGGIOYSA-N
a-Ribono-1,4-lactone	-	3	C5H8O5	3327-63-7	CUOKHACJLGRPHDBXXZVTAOSA-N
11,12-Epoxy-(5Z,8Z,11Z)-icosatrienoic acid	-	2A	C20H32O3	123931-40-8	DXOYQVHGIODESMKROJNAHFSA-N
D-Glucose 6-phosphate	-	3	C6H13O9P1	56-73-5	NBSCHQHZLSJFNQ-GASJEMHNSA-N
D-(-)-Fructose	-	3	C6H12O6	57-48-7	RFSUNEUAIZKAJOARQDHWQXSA-N
D-Xylulose 5-phosphate	-	3	C5H11O8P1	4212-65-1	FNZLKVNUWIIPJSRFPZPGFLSSA-N
L-Dihydroorotic acid	-	2A	C5H6N2O4	5988-19-2	UFIVEPVSAGBUSIREOHLBNSA-N
2-Aminonicotinic acid	-	3	C6H6N2O2	5345-47-1	KPIVDNYJNOPGBEUHFFFAOYSA-N
3-Phosphoglyceric acid	-	2A	C3H7O7P1	820-11-1	OSJPPGNTCRNQQCUHFFFAOYSA-N
Glycyl-L-leucine	-	2A	C8H16N2O3	869-19-2	DKEXFJVMVGETOOLURJTMIESA-N
N-Acetylaspartic acid	-	2A	C6H9N1O5	997-55-7	OTCCIMWXFLJLIABYPYZUCNSA-N
a,a-Trehalose	-	3	C12H22O11	99-20-7	HDTRYLNUVZCQOYLIZSDCNHSA-N
D-Sedoheptulose 7-phosphate	-	2A	C7H15O10P1	2646-35-7	CBIDVWSRUUODHLQTSLKERKSA-N
Phenylalanine	-	2A	C9H11N1O2	150-30-1	COLNVLDHVKWLRTUHFFFAOYSA-N



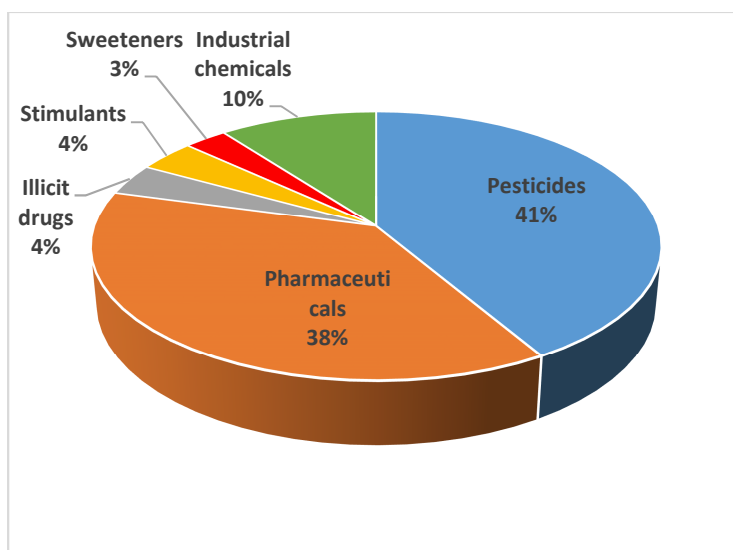
Pantothenic acid	-	2A	C9H17N1O5	79-83-4	GHOKWGTUZEJEAQD-UHFFFAOYSA-N
Allopurinol	-	2A	C5H4N4O1	315-30-0	OFCNXP DARWKPPY-UHFFFAOYSA-N
Xanthine	-	2A	C5H4N4O2	69-89-6	LRFVTYWOQMYALW-UHFFFAOYSA-N
Tryptophan	-	2A	C11H12N2O2	73-22-3	QIVBCDIJIAJPQS-VIFPVBQESA-N

A table above means that all detected compounds determined at concentration levels above or close to their PNECs should be considered for further investigative monitoring.

4. Conclusions

The obtained results should support the main goal of this survey that was “Project activities cover chemical screening to determine a full list of pollutants in the Dniester river basin and for development of monitoring programs for its surface waters.” The application of the state-of-art methods, especially those for organic screening, has revealed and confirmed recent trends in the pollution of Europe Rivers, where new possible pollutants are being revealed apart from those are listed in Directive 2013/39 /EU.

Screening covered the most common substances in the environment such as pesticides, pharmaceuticals, personal care products, flame retardants, food additives, illicit drugs, industrial chemicals, etc. The current view on the presence of target compounds that were detected in at least one sample is displayed in the pie chart, where the highest percentage belongs to pesticides and pharmaceuticals, in both cases some of them exceeded their PNEC values as well as their FoA was also high >80 percent in water samples.



Pie chart –Presenting the ratio of detected compounds in water samples

The entire survey was planned as an advanced stage over the common duties following the Directive 2013/39/EU that means none of WFD PS was targeted purposely as being requested by the directive. On the contrary, wide-scope screening results could be used as a starting point for the determination of the Dniester River Basin Specific Pollutants, which is a requirement by the WFD.

Based on the obtained results from wide-scope results for water samples, there is a top rank of 7 compounds that could pose a risk for the environment. The rank was done taking into account four main parameters:

1. exceedance over PNEC value (if exists)
2. frequency of exceedance (FoE)

3. incredible high concentration over 4 ug/l
4. frequency of appearance (FoA).

The suggested list of compounds could be put on the list of the Dniester River Basin Specific Pollutants is as follows.

1. **Terbutylazine** - is a selective herbicide. Chemically, it is a chlorotriazine; compared with atrazine and simazine, it has a tert-butyl group in place of the isopropyl and ethyl groups, respectively.
2. **Carbaryl** - is a chemical in the carbamate family used chiefly as an insecticide.
3. **Metolachlor** – is an organic compound that is widely used as a herbicide.
4. **Propazine-2-hydroxy** – is a transformation product of propazine belongs to the same group of herbicides as a terbutylazine.
5. **Carbamazepine** - is an anticonvulsant medication used primarily in the treatment of epilepsy and neuropathic pain.
6. **Fluconazole** - is an antifungal medication used for a number of fungal infections.
7. **Sulfamethoxazole** – is an antibiotic.
8. **Acetochlor** - is an organic compound that is widely used as a herbicide.
9. **Telmisartan** -- is a medication used to treat high blood pressure, heart failure, and diabetic kidney disease.
10. **Triclosan** - is an antibacterial and antifungal agent present in some consumer products, including toothpaste, soaps, detergents, toys, and surgical cleaning treatments.

There are also the others that deserve the high attention for an additional investigation like caffeine, lidocaine-N-oxide, dimethoate, omethoate, nicosulfuron, ephedrine as well as non-target screening revealed plenty of compounds belong to group of plasticizers, flame retardants, surfactants and pharmaceuticals (see **Table 2**).

Apart from organic analyses, serious attention was paid to the current situation of metals in water and sediment samples and based on the results, it can be stipulated that the regular monitoring of WFD metals still should be required. **Mercury** as one of four WFD metals was checked in both matrices. MAC-EQS value of mercury (0.07 ug/L in filtered portion) was not exceeded in any case, however, two unfiltered samples from **sampling points 1** and **12** were at concentrations slightly over this value. **Copper** and **zinc** are other metals that should regularly be checked in water samples, both were found at concentrations exceeding the Slovak EQS values (see **Annex I**). Frequency of exceedance for copper and zinc was 65 % and 15 %, respectively.

The most critical metals that should be regularly controlled in sediments are **nickel** with its FoE 100 % against to the Dutch limits, **chromium** (FoE 15 %) and **zinc** (FoE 8 %). It should be noted that the current legislation has trigger values only for 3 out of 4 metals, mercury was taken out from water and has to be measured in fish due to its bioaccumulation potential.



Nowadays, it is difficult to make a right conclusion on the situation of metals because of the absence of their trigger values either in EU or the national legislation.

Based on the obtained results, it can be stated that the most polluted sites, where it was registered the highest frequency of exceeding limits values for particular compounds and metals, are as follows:

- **SP – 11 (Byk – mouth, Moldova)** – limit values were exceeded 10 times,
- **SP – 9 (Mohyliv – Podilsky, Ukraine)** - limit values were exceeded 7 times,
- **SP – 12 (Reut – mouth, Moldova)** - limit values were exceeded 7 times,
- **SP – 8 (Tismenitsa - Ukraine)** - limit values were exceeded 3 times,
- **SP – 10 (Seret – mouth, Ukraine)** - limit values were exceeded 2 times.

Very similar pattern of pollution was observed for metals, as well.

In the end, the applying high resolution method allows to store all raw LC-HR-MS chromatograms available for further investigation of presence of any of the suspect compounds (>40000) in DSFP.

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Annex I

Target results of metals in surface water and sediment samples

Project No 538063

Environmental Institute, s.r.o., Okružná 784/42, 972 41 Koš, Slovakia

July 2019

Water samples		As (ug/L)	Hg (ug/L)	Zn (ug/L)	Cu (ug/L)	Cr (ug/L)
Sampling point 1	filtered	2.07	0.0801	5.82	3.93	0.717
	non-filtered	1.92	0.0389	4.65	2.21	<LOQ
Sampling point 2	filtered	3.69	0.0201	16.8	3.28	1.08
	non-filtered	1.36	0.0036	6.21	2.09	<LOQ
Sampling point 3	filtered	3.51	0.0481	40.7	3.33	0.583
	non-filtered	3.12	0.0156	2.51	1.71	<LOQ
Sampling point 4	filtered	2.08	<LOQ	10.1	6.28	1.15
	non-filtered	<LOQ	<LOQ	4.02	0.803	<LOQ
Sampling point 5	filtered	5.04	<LOQ	5.77	1.26	0.373
	non-filtered	1.92	<LOQ	4.21	0.874	<LOQ
Sampling point 6	filtered	2.24	<LOQ	41.7	3.99	<LOQ
	non-filtered	<LOQ	0.0271	1.44	2.32	<LOQ
Sampling point 7	filtered	<LOQ	<LOQ	7.37	3.93	4.37
	non-filtered	<LOQ	<LOQ	4.74	1.44	0.474
Sampling point 8	filtered	<LOQ	0.0459	92.3	2.81	0.912
	non-filtered	<LOQ	0.0364	15.9	0.789	<LOQ
Sampling point 9	filtered	3.87	<LOQ	10.2	2.61	0.426
	non-filtered	2.44	0.0224	3.16	1.88	0.279
Sampling point 10	filtered	6.92	<LOQ	11.5	4.12	3.02
	non-filtered	3.52	0.0095	8.42	4.65	<LOQ
Sampling point 11	filtered	2.94	<LOQ	108	10.8	4.38
	non-filtered	<LOQ	0.0331	52.2	5.73	0.339
Sampling point 12	filtered	<LOQ	0.0686	7.82	2.01	3.01
	non-filtered	<LOQ	0.0398	6.83	1.47	1.57
Sampling point 13	filtered	<LOQ	0.0458	8.65	3.63	<LOQ
	non-filtered	<LOQ	0.0394	2.39	2.36	<LOQ

LOQ (ug/L)	1.348	0.009	0.107	0.487	0.264
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Sediment samples	As (mg/kg)	Hg (mg/kg)	Zn (mg/kg)	Cu (mg/kg)	Cr (mg/kg)	Cd (mg/kg)	Pb (mg/kg)	Ni (mg/kg)
Sampling point 1	4.59	0.095	68.8	21.9	66.1	0.506	14.3	30.7
Sampling point 2	7.62	0.174	102	26.1	101	0.415	19.4	45.6
Sampling point 3	5.63	0.124	84.8	21.2	45.4	0.208	15.8	29.4
Sampling point 4	4.96	0.083	73.3	4.72	48.2	0.354	14.8	25.9
Sampling point 5	7.77	0.501	48.6	0.615	35.9	0.278	11.8	24.4
Sampling point 6	3.99	0.195	42.6	2.61	30.7	0.205	12.2	20.6
Sampling point 7	4.35	0.029	78.6	10.5	60.4	0.431	11.7	28.5
Sampling point 8	6.61	0.012	78.1	15.1	65.8	0.433	15.3	37.1
Sampling point 9	4.73	0.207	111	8.71	42.9	0.324	22.5	22.7
Sampling point 10	8.62	0.602	107	20.8	108	0.562	18.3	49.5
Sampling point 11	2.32	0.133	167	26.6	37.6	0.573	15.5	13.3
Sampling point 12	8.93	0.122	77.9	4.96	74.4	0.357	17.6	36.9
Sampling point 13	6.13	0.067	96.5	25.1	41.3	0.757	31.7	27.8

Annex II

The list of compounds to be searched for in all samples within wide-scope screening

Project No 538063

Environmental Institute, s.r.o., Okružná 784/42, 972 41 Koš, Slovakia

July 2019

Summary table of target compounds checked in all three matrices within wide-scope screening

No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1	1-(3-Trifluoromethylphenyl)-piperazine	W,B,S	N	Y
2	1,2,3,6-Tetrahydrophthalimide (cis-)	W,B,S	N	Y
3	1,3,5 (10)-estratrien-2 3-diol-17-one/2hydroxyestrone (2-OH E1)	W,B,S	N	Y
4	1,3,5 (10)-estratrien-3 16 17-triol (E3 estriol)	W,B,S	N	Y
5	1,3,5 (10)-estratrien-3 16-diol-17-one/16hydroxyestrone (16-OH E1)	W,B,S	N	Y
6	1,3,5 (10)-estratrien-3 4-diol-17-one/4hydroxyestrone (4-OH E1)	W,B,S	N	Y
7	1,3,5 (10)-estratrien-3-ol-17-one estrone (E1)	W,B,S	N	Y
8	1.2.3.6-Tetrahydrophthalimide (cis-)	W,B,S	N	Y
9	1[(4-chlorophenyl) phenyl methyl] piperazine	W,B,S	N	Y
10	10-Hydroxycarbamazepine	W,B,S	N	Y
11	1-3-Dimethyl-2-imidazolidinon	W,B,S	N	Y
12	17-alpha-Methyltestosterone	W,B,S	N	Y
13	17 α -methyl-5 α -androstane-3 α , 17 α -diol	W,B,S	N	Y
14	19-norandrosterone	W,B,S	N	Y
15	19-noretiocholanolone	W,B,S	N	Y
16	1H-1 2 3-triazole-5-OH	W,B,S	N	Y
17	1H-Benzotriazole-5-carboxylic acid	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
18	1-Hydroxy-Benzotriazole	W,B,S	N	Y
19	1-Hydroxymethyltriazolam. alpha-Hydroxy-Triazolam	W,B,S	N	Y
20	1-Hydroxymidazolam	W,B,S	N	Y
21	1-Methyl-Benzotriazole	W,B,S	N	Y
22	1-Naphthylacetic acid	W,B,S	N	Y
23	1-Piperonylpiperazine	W,B,S	N	Y
24	2' 3'-di-O-acetyl-5'-deoxy-5-fluorocytidine	W,B,S	N	Y
25	2 C-D	W,B,S	N	Y
26	2 C-P	W,B,S	N	Y
27	2.3.4.6-Tetrachlorophenol	W,B,S	N	Y
28	2.4.5-T	W,B,S	N	Y
29	2.4.6-Trichlorophenol	W,B,S	N	Y
30	2.4-D	W,B,S	N	Y
31	2.4-DB	W,B,S	N	Y
32	2.4-DB-methylester	W,B,S	N	Y
33	2.4-D-butylester	W,B,S	N	Y
34	2.4-Dimethylaniline (Metabolite Amitraz)	W,B,S	N	Y
35	2.4-D-methylester	W,B,S	N	Y
36	2-5-DMA	W,B,S	N	Y
37	25I-NBoMe	W,B,S	N	Y
38	2-Amino-5-chlorobenzophenone	W,B,S	N	Y
39	2-Amino-5-nitrobenzophenone	W,B,S	N	Y
40	2-Aminobenzimidazole	W,B,S	N	Y
41	2-Amino-Benzothiazole	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
42	2-Aminoheptan	W,B,S	N	Y
43	2-Benzyltetronic acid	W,B,S	N	Y
44	2C-B	W,B,S	N	Y
45	2C-C	W,B,S	N	Y
46	2C-E	W,B,S	N	Y
47	2C-H	W,B,S	N	Y
48	2C-I	W,B,S	N	Y
49	2CT-2	W,B,S	N	Y
50	2C-T-4	W,B,S	N	Y
51	2C-T-7	W,B,S	N	Y
52	2-Fluoramphetamin	W,B,S	N	Y
53	2-F-Methamphetamine	W,B,S	N	Y
54	2-Hydroxyibuprofen	W,B,S	N	Y
55	2-Me-S-Benzothiazole	W,B,S	N	Y
56	2-Methyl-4-amino-6-methoxy-s-triazine	W,B,S	N	Y
57	2-Naphthalinsulfonic acid	W,B,S	N	Y
58	2-OH-Benzothiazole	W,B,S	N	Y
59	2-Oxo-3-hydroxy-LSD	W,B,S	N	Y
60	2-Phenethylamine	W,B,S	N	Y
61	2-Phenylphenol	W,B,S	N	Y
62	3 4-(dichlorophenyl)-3-methyl urea	W,B,S	N	Y
63	3 4-(dichlorophenyl)-urea	W,B,S	N	Y
64	3 5 6-Trichloro-2-pyridinol	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
65	3.5-Diodotyrosine	W,B,S	N	Y
66	3-4-DMA	W,B,S	N	Y
67	3-4-DMMC	W,B,S	N	Y
68	3-F-Amphetamine	W,B,S	N	Y
69	3-F-Methamphetamine	W,B,S	N	Y
70	3-F-Methcathinone	W,B,S	N	Y
71	3-Hydroxyphenazepam	W,B,S	N	Y
72	3-MBZP	W,B,S	N	Y
73	3-Methylfentanyl	W,B,S	N	Y
74	3-Methylnorfentanyl	W,B,S	N	Y
75	3-Phenoxybenzoic acid	W,B,S	N	Y
76	4 5-Dichloro-2-n-octyl-isothiazol-3(2H)-on (DCOIT)	W,B,S	N	Y
77	4-Acetamidoantipyrine	W,B,S	N	Y
78	4-AcO-DIPT	W,B,S	N	Y
79	4-androsten-3 17-dione (A4)	W,B,S	N	Y
80	4-Benzamidosalicylic acid	W,B,S	N	Y
81	4-F-Amphetamine	W,B,S	N	Y
82	4-F-Methamphetamine	W,B,S	N	Y
83	4-F-Methcathinone. 4-FMC. Flephedrone	W,B,S	N	Y
84	4-Formylaminoantipyrine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
85	4-hydroxy-4-androstene-3,17-dione	W,B,S	N	Y
86	4-Hydroxy-Benzotriazole	W,B,S	N	Y
87	4-Me-Benzotriazole	W,B,S	N	Y
88	4-MEC	W,B,S	N	Y
89	4-MePPP	W,B,S	N	Y
90	4-Methoxy-1.3-phenylenediamine	W,B,S	N	Y
91	4-Methylaminophenazone	W,B,S	N	Y
92	4-Methylbuphedrone	W,B,S	N	Y
93	4-Methyl-pyrrolidinopropiophenone (MPPP)	W,B,S	N	Y
94	4-MTA	W,B,S	N	Y
95	4-nonylphenol (4-NP)	W,B,S	N	Y
96	4-Nonylphenoxy-acetic acid	W,B,S	N	Y
97	4-OH-DIPT	W,B,S	N	Y
98	4-Piperidincarboxamid	W,B,S	N	Y
99	4-tert-octylphenol (4-t-OP)	W,B,S	N	Y
100	4-Trifluoromethylphenol	W,B,S	N	Y
101	5 6-di-Me-Benzotriazole	W,B,S	N	Y
102	5-(p-Methylphenyl)-5-phenylhydantoin (MPPH)	W,B,S	N	Y
103	5-Androstan-3 17-diol-3-glucosiduronate (3-diol-3G)	W,B,S	N	Y
104	5-APB	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
105	5-Carboxybupranolol	W,B,S	N	Y
106	5-Chloro-2-methyl-4-isothiazolin-3-on (CMI)	W,B,S	N	Y
107	5-Fluoro Cytosine	W,B,S	N	Y
108	5-IAI	W,B,S	N	Y
109	5-MeO-AMT	W,B,S	N	Y
110	5-MeO-DALT	W,B,S	N	Y
111	5-MeO-DIPT	W,B,S	N	Y
112	5-MeO-DMT	W,B,S	N	Y
113	5-MeOT	W,B,S	N	Y
114	5-MeO-TMT	W,B,S	N	Y
115	6-APB	W,B,S	N	Y
116	6-Mercaptopurine	W,B,S	N	Y
117	6-O-Monoacetylmorphine (MAM)	W,B,S	N	Y
118	6 α -hydroxyandrostenedione	W,B,S	N	Y
119	6 α -hydroxytestosterone	W,B,S	N	Y
120	7-Aminoclonazepam	W,B,S	N	Y
121	7-Aminodesmethylflunitrazepam	W,B,S	N	Y
122	7-Aminoflunitrazepam	W,B,S	N	Y
123	7-Aminonitrazepam	W,B,S	N	Y
124	8-OH-Mirtazapine	W,B,S	N	Y
125	9-OH-Risperidone	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
126	Acamprosac	W,B,S	N	Y
127	Acebutolol	W,B,S	N	Y
128	Aceclidine	W,B,S	N	Y
129	Acemetacin	W,B,S	N	Y
130	Acephate	W,B,S	N	Y
131	Acepromazine	W,B,S	N	Y
132	Aceprometazine	W,B,S	N	Y
133	Acesulfame	W,B,S	N	Y
134	Acetaminodantrolene	W,B,S	N	Y
135	Acetamiprid	W,B,S	N	Y
136	Acetazolamide	W,B,S	N	Y
137	Acetiamine	W,B,S	N	Y
138	Acetochlor	W,B,S	N	Y
139	Acibenzolar-S-Methyl	W,B,S	N	Y
140	Aciclovir	W,B,S	N	Y
141	Acifluorfen	W,B,S	N	Y
142	Aclonifen	W,B,S	N	Y
143	Aconitine	W,B,S	N	Y
144	Acrinathrin	W,B,S	N	Y
145	Acrivastine	W,B,S	N	Y
146	Actinoquinol	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
147	Adenine	W,B,S	N	Y
148	Adenosine	W,B,S	N	Y
149	Agomelatine	W,B,S	N	Y
150	Ajmaline	W,B,S	N	Y
151	Alachlor	W,B,S	N	Y
152	Alachlor-ESA	W,B,S	N	Y
153	Alanycarb	W,B,S	N	Y
154	Albendazole	W,B,S	N	Y
155	Albendazole sulfone	W,B,S	N	Y
156	Albuterol	W,B,S	N	Y
157	Aldicarb	W,B,S	N	Y
158	Aldicarb-sulfoxide	W,B,S	N	Y
159	Alfentanyl	W,B,S	N	Y
160	Alimemazine	W,B,S	N	Y
161	Aliskiren	W,B,S	N	Y
162	Alitame	W,B,S	N	Y
163	Alizapride	W,B,S	N	Y
164	Allethrin	W,B,S	N	Y
165	Allopurinol	W,B,S	N	Y
166	allo-THF (Allotetrahydrocortisol)	W,B,S	N	Y
167	Almitrine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
168	alpha-Hydroxy-Alprazolam	W,B,S	N	Y
169	Alpha-methylfentanyl	W,B,S	N	Y
170	alpha-PPP	W,B,S	N	Y
171	Alpha-PVP	W,B,S	N	Y
172	Alprazolam	W,B,S	N	Y
173	Alprenolol	W,B,S	N	Y
174	Althiazide	W,B,S	N	Y
175	Altretamine	W,B,S	N	Y
176	Alypin	W,B,S	N	Y
177	AM-1220	W,B,S	N	Y
178	AM-1220-Azepane	W,B,S	N	Y
179	AM-2201	W,B,S	N	Y
180	AM-2233	W,B,S	N	Y
181	AM-694	W,B,S	N	Y
182	Amantadine	W,B,S	N	Y
183	Ambroxol	W,B,S	N	Y
184	AMDOPH	W,B,S	N	Y
185	Ametryn	W,B,S	N	Y
186	Amfepramone	W,B,S	N	Y
187	Amidephrine	W,B,S	N	Y
188	Amidosulfuron	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
189	Amiloride	W,B,S	N	Y
190	Aminocarb (Metacil)	W,B,S	N	Y
191	Aminoglutethimide	W,B,S	N	Y
192	Aminophenazone. Amidopyrin	W,B,S	N	Y
193	Aminopromazine	W,B,S	N	Y
194	Aminorex	W,B,S	N	Y
195	Amiodarone	W,B,S	N	Y
196	Amisulpride	W,B,S	N	Y
197	Amisulpride-N-Oxide	W,B,S	N	Y
198	Amitraz	W,B,S	N	Y
199	Amitriptyline	W,B,S	N	Y
200	Amitrol metabolite	W,B,S	N	Y
201	Amitrole	W,B,S	N	Y
202	Amlodipine	W,B,S	N	Y
203	Amorolfine	W,B,S	N	Y
204	Amoxapine	W,B,S	N	Y
205	Amphetamine	W,B,S	N	Y
206	Ampicillin	W,B,S	N	Y
207	Amrinone	W,B,S	N	Y
208	AMT, Alpha-Methyltryptamine	W,B,S	N	Y
209	Anabasine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
210	Anastrozole	W,B,S	N	Y
211	Anatabine	W,B,S	N	Y
212	Ancymidol	W,B,S	N	Y
213	Andarine met.	W,B,S	N	Y
214	Androsterone glycuronide	W,B,S	N	Y
215	Anilazine. Dyrene	W,B,S	N	Y
216	Anilofos	W,B,S	N	Y
217	Antazoline	W,B,S	N	Y
218	Apomorphine	W,B,S	N	Y
219	Apophedrin (Phenylethanolamine)	W,B,S	N	Y
220	Apraclonidin	W,B,S	N	Y
221	Aprindine	W,B,S	N	Y
222	Apronalide	W,B,S	N	Y
223	Aramite (total)	W,B,S	N	Y
224	Arecoline	W,B,S	N	Y
225	Aripiprazole	W,B,S	N	Y
226	Arprinocid	W,B,S	N	Y
227	Asana (Esfenvalerate)	W,B,S	N	Y
228	Asenapine	W,B,S	N	Y
229	Aspartame	W,B,S	N	Y
230	Aspon	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
231	Astemizole	W,B,S	N	Y
232	Asulam	W,B,S	N	Y
233	Asulam met.	W,B,S	N	Y
234	Atazanavir	W,B,S	N	Y
235	Atenolol acid (Metoprolol acid)	W,B,S	N	Y
236	Atomoxetine	W,B,S	N	Y
237	Atorvastatin	W,B,S	N	Y
238	Atraton	W,B,S	N	Y
239	Atrazin-desethyl-2-hydroxy (=Prometon- Hydroxy- Desisopropyl)	W,B,S	N	Y
240	Atrazine	W,B,S	N	Y
241	Atrazine-desethyl	W,B,S	N	Y
242	Atrazine-desisopropyl	W,B,S	N	Y
243	Atropine	W,B,S	N	Y
244	Avermectin B1a (Abamectin)	W,B,S	N	Y
245	Avermectin B1b (Abamectin)	W,B,S	N	Y
246	Axeen (Proxabarbal. Proxibarbital)	W,B,S	N	Y
247	Azaconazole	W,B,S	N	Y
248	Azacyclonol	W,B,S	N	Y
249	Azadirachtin	W,B,S	N	Y
250	Azapropazone	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
251	Azatadine	W,B,S	N	Y
252	Azelastine	W,B,S	N	Y
253	Azimsulfuron	W,B,S	N	Y
254	Azinphos-ethyl	W,B,S	N	Y
255	Azinphos-methyl (Guthion)	W,B,S	N	Y
256	Aziprotryne	W,B,S	N	Y
257	Azithromycin	W,B,S	N	Y
258	Azoxystrobin	W,B,S	N	Y
259	Azoxystrobin acid	W,B,S	N	Y
260	Baclofen	W,B,S	N	Y
261	Bambuterol	W,B,S	N	Y
262	Bamifylline	W,B,S	N	Y
263	Bamipine	W,B,S	N	Y
264	Barban	W,B,S	N	Y
265	Barverin	W,B,S	N	Y
266	BDB	W,B,S	N	Y
267	Beclamide	W,B,S	N	Y
268	Beflubutamid	W,B,S	N	Y
269	Befunolol	W,B,S	N	Y
270	Benactyzine	W,B,S	N	Y
271	Benalaxyl	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
272	Benazolin	W,B,S	N	Y
273	Bendiocarb	W,B,S	N	Y
274	Bendroflumethiazide	W,B,S	N	Y
275	Benfuracarb	W,B,S	N	Y
276	Benodanil	W,B,S	N	Y
277	Benomyl (decomposed to Carbendazim)	W,B,S	N	Y
278	Benorilate	W,B,S	N	Y
279	Benoxacor	W,B,S	N	Y
280	Benperidol	W,B,S	N	Y
281	Benproperine	W,B,S	N	Y
282	Benserazide	W,B,S	N	Y
283	Bensulfuron-methyl	W,B,S	N	Y
284	Bensulide	W,B,S	N	Y
285	Bensultap	W,B,S	N	Y
286	Benthiavalicarb-isopropyl	W,B,S	N	Y
287	Benzamidine	W,B,S	N	Y
288	Benzatropine	W,B,S	N	Y
289	Benzethonium	W,B,S	N	Y
290	Benzocaine	W,B,S	N	Y
291	Benzoctamine	W,B,S	N	Y
292	Benzododecinium	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
293	Benzoic acid	W,B,S	N	Y
294	Benzoic acid 3 5-dibromo-4-hydroxy-	W,B,S	N	Y
295	Benzophenone 3 (=2-Hydroxy-4methoxybenzophenon)	W,B,S	N	Y
296	Benzothiazole (BTH)	W,B,S	N	Y
297	Benzoximate	W,B,S	N	Y
298	Benzoxonium	W,B,S	N	Y
299	Benzoylecgonine	W,B,S	N	Y
300	Benzoylprop-ethyl	W,B,S	N	Y
301	Benzthiazide	W,B,S	N	Y
302	Benzthiazuron	W,B,S	N	Y
303	Benzyl-dimethyl-dodecylammonium	W,B,S	N	Y
304	Benzylpiperazine	W,B,S	N	Y
305	Betamethason 21	W,B,S	N	Y
306	betamethazone acetate	W,B,S	N	Y
307	Betaxolol	W,B,S	N	Y
308	Bethanidine	W,B,S	N	Y
309	Bexarotene	W,B,S	N	Y
310	Bicalutamid	W,B,S	N	Y
311	Bicalutamide	W,B,S	N	Y
312	Bifenazate	W,B,S	N	Y
313	Bifenox	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
314	Bifenox acid	W,B,S	N	Y
315	Bifenthrin	W,B,S	N	Y
316	Bioallethrin	W,B,S	N	Y
317	Bioresmethrin	W,B,S	N	Y
318	Biotin	W,B,S	N	Y
319	Biperidene	W,B,S	N	Y
320	Bisoprolol	W,B,S	N	Y
321	Bispyribac	W,B,S	N	Y
322	Bitertanol	W,B,S	N	Y
323	bk-MDDMA	W,B,S	N	Y
324	Bornaprine	W,B,S	N	Y
325	Boscalid	W,B,S	N	Y
326	Brefedrone	W,B,S	N	Y
327	Brinzolamide	W,B,S	N	Y
328	Brodifacoum	W,B,S	N	Y
329	Bromadiolone	W,B,S	N	Y
330	Bromazepam	W,B,S	N	Y
331	Bromhexine	W,B,S	N	Y
332	Bromochlorophen	W,B,S	N	Y
333	Bromodragonfly	W,B,S	N	Y
334	Bromohexime	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
335	Bromophos (Bromophos-methyl)	W,B,S	N	Y
336	Bromophos-ethyl	W,B,S	N	Y
337	Bromopropylate	W,B,S	N	Y
338	Bromoxynil	W,B,S	N	Y
339	Bromperidol	W,B,S	N	Y
340	Brompheniramine	W,B,S	N	Y
341	Bromuconazole	W,B,S	N	Y
342	Bromural (Bromisoval)	W,B,S	N	Y
343	Brotizolam	W,B,S	N	Y
344	Brucine	W,B,S	N	Y
345	Bucetin	W,B,S	N	Y
346	Budipine	W,B,S	N	Y
347	Bufexamac	W,B,S	N	Y
348	Bulbocapnine	W,B,S	N	Y
349	Bumetanide	W,B,S	N	Y
350	Bunitrolol	W,B,S	N	Y
351	Buphedrone	W,B,S	N	Y
352	Bupirimate	W,B,S	N	Y
353	Bupivacaine	W,B,S	N	Y
354	Bupranolol	W,B,S	N	Y
355	Buprenorphine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
356	Buprofezin	W,B,S	N	Y
357	Bupropion	W,B,S	N	Y
358	Buspirone	W,B,S	N	Y
359	Butachlor	W,B,S	N	Y
360	Butafenacil	W,B,S	N	Y
361	Butamifos	W,B,S	N	Y
362	Butizide	W,B,S	N	Y
363	Butocarboxim	W,B,S	N	Y
364	Butocarboxim-sulfoxid	W,B,S	N	Y
365	Butoxycaine	W,B,S	N	Y
366	Butoxycarboxim	W,B,S	N	Y
367	Butralin	W,B,S	N	Y
368	Butter yellow	W,B,S	N	Y
369	Buturon	W,B,S	N	Y
370	Butylate	W,B,S	N	Y
371	Butylone	W,B,S	N	Y
372	Cadusafos	W,B,S	N	Y
373	Cafaminol	W,B,S	N	Y
374	Caffeine	W,B,S	N	Y
375	Calteridol	W,B,S	N	Y
376	Camazepam	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
377	Cambendazol	W,B,S	N	Y
378	Candesartan	W,B,S	N	Y
379	Cannabidiol	W,B,S	N	Y
380	Cannabinol	W,B,S	N	Y
381	Canrenone	W,B,S	N	Y
382	Capecitabin	W,B,S	N	Y
383	Capsaicin	W,B,S	N	Y
384	Captafol	W,B,S	N	Y
385	Captan	W,B,S	N	Y
386	Captopril	W,B,S	N	Y
387	Carazolol	W,B,S	N	Y
388	Carbachol	W,B,S	N	Y
389	Carbamazepine	W,B,S	N	Y
390	Carbamazepine-10 11-dihydro-10 11-dihydroxy	W,B,S	N	Y
391	Carbamazepine-10.11-epoxid	W,B,S	N	Y
392	Carbaryl	W,B,S	N	Y
393	Carbendazim	W,B,S	N	Y
394	Carbetamide	W,B,S	N	Y
395	Carbinoxamine	W,B,S	N	Y
396	Carbofuran	W,B,S	N	Y
397	Carbofuran-3-hydroxy	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
398	Carbophenothion	W,B,S	N	Y
399	Carbosulfan	W,B,S	N	Y
400	Carboxin	W,B,S	N	Y
401	Carboxyibuprofen	W,B,S	N	Y
402	Carbutamide	W,B,S	N	Y
403	Carbuterol	W,B,S	N	Y
404	Carfentrazone-ethyl	W,B,S	N	Y
405	Carisoprodol	W,B,S	N	Y
406	Carprofen	W,B,S	N	Y
407	Carteolol	W,B,S	N	Y
408	Carticaine (Articaine)	W,B,S	N	Y
409	Carvedilol	W,B,S	N	Y
410	Cathine	W,B,S	N	Y
411	Cathinone	W,B,S	N	Y
412	Cefaclor	W,B,S	N	Y
413	Cefadroxil	W,B,S	N	Y
414	Cefalexin	W,B,S	N	Y
415	Cefalonium	W,B,S	N	Y
416	Cefazolin	W,B,S	N	Y
417	Cefoperazone	W,B,S	N	Y
418	Cefquinome	W,B,S	N	Y
419	Ceftazidim	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
420	Ceftiofur	W,B,S	N	Y
421	Celecoxib	W,B,S	N	Y
422	Celiprolol	W,B,S	N	Y
423	Cerivastatin	W,B,S	N	Y
424	Cetirizine	W,B,S	N	Y
425	Cetirizine-N-Oxide	W,B,S	N	Y
426	CGA 321113 (Trifloxystrobin Metabolite)	W,B,S	N	Y
427	Chloramben	W,B,S	N	Y
428	Chloramphenicol	W,B,S	N	Y
429	Chlorantraniliprole	W,B,S	N	Y
430	Chlorazaniil	W,B,S	N	Y
431	Chlorbenzoxamine	W,B,S	N	Y
432	Chlorbromuron	W,B,S	N	Y
433	Chlorbufam	W,B,S	N	Y
434	Chlorcyclizine	W,B,S	N	Y
435	Chlordiazepoxide	W,B,S	N	Y
436	Chlordimeform	W,B,S	N	Y
437	Chlorfenprop-methyl	W,B,S	N	Y
438	Chlorfenson.Ovex.chlorfénizon.ephirsulfonate.ov	W,B,S	N	Y
439	Chlorfenvinphos (E/Z)	W,B,S	N	Y
440	Chlorfluazuron	W,B,S	N	Y
441	Chloridazone	W,B,S	N	Y
442	Chloridazon-methyl-desphenyl	W,B,S	N	Y
443	Chlorimuronethyl	W,B,S	N	Y
444	Chlormequat	W,B,S	N	Y
445	Chlormezanone	W,B,S	N	Y
446	Chlorobenzilate	W,B,S	N	Y
447	Chloro-benzotriazole	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
448	Chlorophacinone	W,B,S	N	Y
449	Chloropropylate	W,B,S	N	Y
450	Chloropyramine	W,B,S	N	Y
451	Chloroquine	W,B,S	N	Y
452	Chlorothalonil-4-hydroxy	W,B,S	N	Y
453	Chlorothiamid	W,B,S	N	Y
454	chlorothiazide	W,B,S	N	Y
455	Chlorotoluron	W,B,S	N	Y
456	Chlorphenethazine	W,B,S	N	Y
457	Chlorpheniramine	W,B,S	N	Y
458	Chlorpromazine	W,B,S	N	Y
459	Chlorpropamide	W,B,S	N	Y
460	Chlorpropham	W,B,S	N	Y
461	Chlorprotixene	W,B,S	N	Y
462	Chlorpyriphos	W,B,S	N	Y
463	Chlorpyriphos-methyl	W,B,S	N	Y
464	Chlorsulfuron	W,B,S	N	Y
465	Chlorthal-dimethyl (DCPA. Dacthal)	W,B,S	N	Y
466	Chlorthalidon	W,B,S	N	Y
467	Chlorthion	W,B,S	N	Y
468	Chromafenozide	W,B,S	N	Y
469	Cilastatin	W,B,S	N	Y
470	Cilazapril	W,B,S	N	Y
471	Cimaterol	W,B,S	N	Y
472	Cimetidine	W,B,S	N	Y
473	Cinchocaine	W,B,S	N	Y
474	Cinchofen	W,B,S	N	Y
475	Cinidon-ethyl	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
476	Cinnarizine	W,B,S	N	Y
477	Cinosulfuron	W,B,S	N	Y
478	Cinoxacin	W,B,S	N	Y
479	Ciprofloxacin	W,B,S	N	Y
480	Cisapride	W,B,S	N	Y
481	cis-Methylfentanyl	W,B,S	N	Y
482	Citalopram	W,B,S	N	Y
483	Citalopram amide	W,B,S	N	Y
484	Citalopram carboxylic acid	W,B,S	N	Y
485	Clanobutin	W,B,S	N	Y
486	Clarithromycin	W,B,S	N	Y
487	Clazuril	W,B,S	N	Y
488	Clemastine	W,B,S	N	Y
489	Clenbuterol	W,B,S	N	Y
490	Clethodim	W,B,S	N	Y
491	Clibucaine	W,B,S	N	Y
492	Clidinium	W,B,S	N	Y
493	Climbazole	W,B,S	N	Y
494	Clindamycin	W,B,S	N	Y
495	Clobazam	W,B,S	N	Y
496	Clobenzepam	W,B,S	N	Y
497	Clobetasone butyrate	W,B,S	N	Y
498	Clobutinol	W,B,S	N	Y
499	Clodinafop-propargyl	W,B,S	N	Y
500	Clofentezine	W,B,S	N	Y
501	Clofibric acid	W,B,S	N	Y
502	Clomazone (Command)	W,B,S	N	Y
503	Clomethiazole	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
504	Clomipramine	W,B,S	N	Y
505	Clonazepam	W,B,S	N	Y
506	Clonidine	W,B,S	N	Y
507	Clopamide	W,B,S	N	Y
508	Clopenthiol	W,B,S	N	Y
509	Clopidogrel	W,B,S	N	Y
510	Clopidogrel Carbon acid	W,B,S	N	Y
511	Clopidol	W,B,S	N	Y
512	Clopyralid	W,B,S	N	Y
513	Clorprenaline	W,B,S	N	Y
514	closantel	W,B,S	N	Y
515	Clothiandin	W,B,S	N	Y
516	Clothiapine	W,B,S	N	Y
517	Clotiazepam	W,B,S	N	Y
518	Clotrimazol	W,B,S	N	Y
519	Clozapine	W,B,S	N	Y
520	Cocaethylene	W,B,S	N	Y
521	Cocaine	W,B,S	N	Y
522	Codeine	W,B,S	N	Y
523	Colchicine	W,B,S	N	Y
524	Corticosterone	W,B,S	N	Y
525	Cortisol F (4-Pregnene-11b,17a,21-triol-3,20-dione)	W,B,S	N	Y
526	Cortisone E (4-Pregnene-17,21-diol-3,11,20-trione)	W,B,S	N	Y
527	Cotinine	W,B,S	N	Y
528	Coumachlor	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
529	Coumaphos	W,B,S	N	Y
530	CP 47-497	W,B,S	N	Y
531	CP 47-497-C8	W,B,S	N	Y
532	CP 55-940	W,B,S	N	Y
533	Crimidine	W,B,S	N	Y
534	Croconazole	W,B,S	N	Y
535	Crotamiton	W,B,S	N	Y
536	Crotethamide	W,B,S	N	Y
537	Crotoxyphos	W,B,S	N	Y
538	Crufomate	W,B,S	N	Y
539	Cyamemazine	W,B,S	N	Y
540	Cyanazine	W,B,S	N	Y
541	Cyanofenphos	W,B,S	N	Y
542	Cyanophos	W,B,S	N	Y
543	Cyanuric acid	W,B,S	N	Y
544	Cyazofamid	W,B,S	N	Y
545	Cyclamic acid	W,B,S	N	Y
546	Cyclizine	W,B,S	N	Y
547	Cycloate	W,B,S	N	Y
548	Cyclobenzaprine	W,B,S	N	Y
549	Cycloheximide	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
550	Cyclopentolate	W,B,S	N	Y
551	Cyclophosphamid	W,B,S	N	Y
552	cyclothiazide	W,B,S	N	Y
553	Cyclovalone	W,B,S	N	Y
554	Cycloxydim	W,B,S	N	Y
555	Cycluron	W,B,S	N	Y
556	Cyfluthrin (Baythroid)	W,B,S	N	Y
557	Cyhalothrin (lambda-)	W,B,S	N	Y
558	Cymoxanil	W,B,S	N	Y
559	Cypermethrin	W,B,S	N	Y
560	Cyprazin	W,B,S	N	Y
561	Cyproconazole	W,B,S	N	Y
562	Cyprodinil	W,B,S	N	Y
563	Cyproheptadine	W,B,S	N	Y
564	Cyromazine	W,B,S	N	Y
565	Cytarabin	W,B,S	N	Y
566	Cythioate	W,B,S	N	Y
567	D L-N N-Didesmethylvenlafaxine	W,B,S	N	Y
568	D L-N O-Didesmethylvenlafaxine	W,B,S	N	Y
569	d l-trans-Tilidine	W,B,S	N	Y
570	D617_metabolite_verapamil	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
571	Dabigatran etexilate	W,B,S	N	Y
572	Daimuron (Dymron)	W,B,S	N	Y
573	Dalapon	W,B,S	N	Y
574	danofloxacin	W,B,S	N	Y
575	Dapiprazole	W,B,S	N	Y
576	Dapsone	W,B,S	N	Y
577	Darunavir	W,B,S	N	Y
578	Dazomet	W,B,S	N	Y
579	Deacetyldiltiazem	W,B,S	N	Y
580	Debrisoquine	W,B,S	N	Y
581	Decoquate	W,B,S	N	Y
582	Deflazacort	W,B,S	N	Y
583	Demeton-S	W,B,S	N	Y
584	Demeton-S-methylsulfone	W,B,S	N	Y
585	Demeton-S-methylsulfoxid (Oxydemeton-methyl)	W,B,S	N	Y
586	Demoxepam	W,B,S	N	Y
587	Denaverine	W,B,S	N	Y
588	Deprenyl	W,B,S	N	Y
589	Deprenyl-N-oxide	W,B,S	N	Y
590	Desalkylflurazepam	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
591	Desethyl-desisopropyl-atrazine	W,B,S	N	Y
592	Desethylhydroxychloroquine	W,B,S	N	Y
593	Desipramine	W,B,S	N	Y
594	Desloratadine	W,B,S	N	Y
595	Desmedipham	W,B,S	N	Y
596	Desmethyl-Chlordiazepoxide	W,B,S	N	Y
597	Desmethyl-Mirtazapine	W,B,S	N	Y
598	Desmetryn	W,B,S	N	Y
599	Desoxycortone 21-(3-phenylpropionate)	W,B,S	N	Y
600	Desoxycortone enantate	W,B,S	N	Y
601	Desoxypipradol	W,B,S	N	Y
602	DET	W,B,S	N	Y
603	Detajmium	W,B,S	N	Y
604	Dexamethasone	W,B,S	N	Y
605	Dexfenfluramine	W,B,S	N	Y
606	Dextromethorphan	W,B,S	N	Y
607	Dextropropoxyphene	W,B,S	N	Y
608	Dhydroepiandrosterone (DHEA) / Androstenolone / 3a-hydroxy-5-androsten-17- one	W,B,S	N	Y
609	Diafenthuron	W,B,S	N	Y
610	Dialifos	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
611	Diallate	W,B,S	N	Y
612	Diatrizoate (=Amidotrizoic acid)	W,B,S	N	Y
613	Diaveridine	W,B,S	N	Y
614	Diazepam	W,B,S	N	Y
615	Diazinon-O-analog	W,B,S	N	Y
616	Dibenzepin	W,B,S	N	Y
617	Dibucaine	W,B,S	N	Y
618	Dibutylchlorendate	W,B,S	N	Y
619	Dibutylone	W,B,S	N	Y
620	Dicamba	W,B,S	N	Y
621	Dicamba-methyl	W,B,S	N	Y
622	Dicapthon	W,B,S	N	Y
623	Dichlofenthion	W,B,S	N	Y
624	Dichlofluanid	W,B,S	N	Y
625	Dichlormid	W,B,S	N	Y
626	Dichlorobenzamide	W,B,S	N	Y
627	Dichlorophen	W,B,S	N	Y
628	Dichlorphenamide	W,B,S	N	Y
629	Dichlorprop	W,B,S	N	Y
630	Dichlorprop-methyl	W,B,S	N	Y
631	Dichlorvos	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
632	Diclazuril	W,B,S	N	Y
633	Diclobutrazol	W,B,S	N	Y
634	Diclofop	W,B,S	N	Y
635	Diclofop-methyl	W,B,S	N	Y
636	Dicloran	W,B,S	N	Y
637	Dicrotophos	W,B,S	N	Y
638	Dicycloverine	W,B,S	N	Y
639	Didecyldimethylammonium (DADMAC (C10:C10))	W,B,S	N	Y
640	Dienogest	W,B,S	N	Y
641	Diethazine	W,B,S	N	Y
642	Diethofencarb	W,B,S	N	Y
643	Diethylcarbazine	W,B,S	N	Y
644	Difenoconazole	W,B,S	N	Y
645	Difenoxyuron	W,B,S	N	Y
646	Difenzoquat	W,B,S	N	Y
647	Difloxacin	W,B,S	N	Y
648	Diflubenzuron	W,B,S	N	Y
649	Diflufenican	W,B,S	N	Y
650	Diflufenzopyr	W,B,S	N	Y
651	Diflunisal	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
652	Dihydrocodeine	W,B,S	N	Y
653	Dihydroergocristine	W,B,S	N	Y
654	Dihydromorphine	W,B,S	N	Y
655	Dihydrostreptomycin	W,B,S	N	Y
656	Dikegulac	W,B,S	N	Y
657	Diltiazem	W,B,S	N	Y
658	Dimethachlor	W,B,S	N	Y
659	Dimethachlor-ESA	W,B,S	N	Y
660	Dimethachlor-OXA	W,B,S	N	Y
661	Dimethenamid	W,B,S	N	Y
662	Dimethenamid-ESA	W,B,S	N	Y
663	Dimethenamid-OXA	W,B,S	N	Y
664	Dimethirimol	W,B,S	N	Y
665	Dimethoate	W,B,S	N	Y
666	Dimethocain	W,B,S	N	Y
667	Dimethomorph	W,B,S	N	Y
668	Dimethylanilin (N.N-)	W,B,S	N	Y
669	Dimethylcathinone	W,B,S	N	Y
670	Dimethyldioctadecylammonium	W,B,S	N	Y
671	Dimethylphthalate	W,B,S	N	Y
672	Dimethylvinphos	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
673	Dimetindene	W,B,S	N	Y
674	Dimetotiazine	W,B,S	N	Y
675	Dimetridazole	W,B,S	N	Y
676	Dimoxystrobin	W,B,S	N	Y
677	Dinex (2-Cyclohexyl-4.6-dinitrophenol)	W,B,S	N	Y
678	Diniconazole	W,B,S	N	Y
679	Dinobuton	W,B,S	N	Y
680	Dinocap	W,B,S	N	Y
681	Dinortramadol	W,B,S	N	Y
682	Dinoseb	W,B,S	N	Y
683	Dinotefuran	W,B,S	N	Y
684	Dinoterb	W,B,S	N	Y
685	Dioxacarb	W,B,S	N	Y
686	Dioxathion	W,B,S	N	Y
687	Dioxethedrin	W,B,S	N	Y
688	Diphacinone	W,B,S	N	Y
689	Diphenamid	W,B,S	N	Y
690	Diphenhydramine	W,B,S	N	Y
691	Diphenoxylate	W,B,S	N	Y
692	Diphenylamine	W,B,S	N	Y
693	Diphenylpyraline	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
694	Diponium	W,B,S	N	Y
695	Diprophylline	W,B,S	N	Y
696	DiPT	W,B,S	N	Y
697	Dipyridamole	W,B,S	N	Y
698	Dipyron (Metamizol)	W,B,S	N	Y
699	Diquat	W,B,S	N	Y
700	Disopyramide	W,B,S	N	Y
701	Disulfoton	W,B,S	N	Y
702	Disulfoton-sulfone	W,B,S	N	Y
703	Disulfoton-sulfoxid	W,B,S	N	Y
704	Ditalimfos	W,B,S	N	Y
705	Dithiopyr	W,B,S	N	Y
706	Diuron	W,B,S	N	Y
707	Dixyrazine	W,B,S	N	Y
708	DMAA. Methylhexanamine	W,B,S	N	Y
709	DMPEA	W,B,S	N	Y
710	DMSA (=N N-Dimethylaminosulfanilid)	W,B,S	N	Y
711	DMT . Dimethyltryptamine	W,B,S	N	Y
712	DNOC (4.6-dinitro-o-cresol)	W,B,S	N	Y
713	DOB	W,B,S	N	Y
714	Dobutamine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
715	DOC	W,B,S	N	Y
716	Dodecyl-benzenesulfonate	W,B,S	N	Y
717	Dodemorph	W,B,S	N	Y
718	Dodine	W,B,S	N	Y
719	DOET	W,B,S	N	Y
720	DOM	W,B,S	N	Y
721	Donepezil	W,B,S	N	Y
722	Dorzolamide	W,B,S	N	Y
723	Dosulepin	W,B,S	N	Y
724	Doxapram	W,B,S	N	Y
725	Doxepin	W,B,S	N	Y
726	Doxylamine	W,B,S	N	Y
727	DPT	W,B,S	N	Y
728	Drazoxolon	W,B,S	N	Y
729	Drofenine	W,B,S	N	Y
730	Dronedaron	W,B,S	N	Y
731	Droperidol	W,B,S	N	Y
732	Dropropizine	W,B,S	N	Y
733	drostanolone met.1	W,B,S	N	Y
734	Duloxetine	W,B,S	N	Y
735	Dyrene (Anilazine)	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
736	E122	W,B,S	N	Y
737	E123	W,B,S	N	Y
738	E124	W,B,S	N	Y
739	E128	W,B,S	N	Y
740	E129	W,B,S	N	Y
741	Ebastine	W,B,S	N	Y
742	Ecgonine methyl ester (EME)	W,B,S	N	Y
743	EDDP	W,B,S	N	Y
744	Edifenphos	W,B,S	N	Y
745	Efavirenz	W,B,S	N	Y
746	Emamectin B1a	W,B,S	N	Y
747	Emamectin B1b	W,B,S	N	Y
748	Embutramide	W,B,S	N	Y
749	Emtricitabine	W,B,S	N	Y
750	Enalapril	W,B,S	N	Y
751	Endosulfan	W,B,S	N	Y
752	Endosulfan-sulfate	W,B,S	N	Y
753	Endothal	W,B,S	N	Y
754	Enoximon	W,B,S	N	Y
755	Enrofloxacin	W,B,S	N	Y
756	Entacapon	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
757	Ephedrine	W,B,S	N	Y
758	Epinephrine	W,B,S	N	Y
759	Eplerenone PC	W,B,S	N	Y
760	EPN	W,B,S	N	Y
761	Epoxiconazole	W,B,S	N	Y
762	Eprosartan	W,B,S	N	Y
763	EPTC	W,B,S	N	Y
764	Ergotamine	W,B,S	N	Y
765	Erythromycin	W,B,S	N	Y
766	Esculin	W,B,S	N	Y
767	Esmolol	W,B,S	N	Y
768	Esomeprazole	W,B,S	N	Y
769	Esprocarb	W,B,S	N	Y
770	Estazolam	W,B,S	N	Y
771	Etaconazole	W,B,S	N	Y
772	Ethacrynic acid	W,B,S	N	Y
773	Ethambutol	W,B,S	N	Y
774	Ethenzamide	W,B,S	N	Y
775	Ethiofencarb	W,B,S	N	Y
776	Ethiofencarb-sulfone	W,B,S	N	Y
777	Ethiofencarb-sulfoxide	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
778	Ethion	W,B,S	N	Y
779	Ethiprole	W,B,S	N	Y
780	Ethirimol	W,B,S	N	Y
781	Ethofumesate	W,B,S	N	Y
782	Ethopabate	W,B,S	N	Y
783	Ethoprop	W,B,S	N	Y
784	Ethoprophos	W,B,S	N	Y
785	Ethoxyquin	W,B,S	N	Y
786	Ethoxysulfuron	W,B,S	N	Y
787	Ethyl sulfate	W,B,S	N	Y
788	Ethylcathinone	W,B,S	N	Y
789	Ethylmorphine	W,B,S	N	Y
790	Ethylone	W,B,S	N	Y
791	Ethylphenidate	W,B,S	N	Y
792	Etilefrine	W,B,S	N	Y
793	Etizolam	W,B,S	N	Y
794	Etodolac	W,B,S	N	Y
795	Etodroxizine	W,B,S	N	Y
796	Etofylline	W,B,S	N	Y
797	Etoxazole	W,B,S	N	Y
798	Etrimfos	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
799	Exemestane	W,B,S	N	Y
800	Famotidine	W,B,S	N	Y
801	Famoxadone	W,B,S	N	Y
802	Famphur	W,B,S	N	Y
803	Fedrilate	W,B,S	N	Y
804	Felodipine	W,B,S	N	Y
805	Fenamidone	W,B,S	N	Y
806	Fenamiphos	W,B,S	N	Y
807	Fenamiphos - sulfone	W,B,S	N	Y
808	Fenarimol	W,B,S	N	Y
809	Fenazaquin	W,B,S	N	Y
810	Fenbendazole	W,B,S	N	Y
811	Fenbuconazole	W,B,S	N	Y
812	Fenbufen	W,B,S	N	Y
813	Fencamfamine	W,B,S	N	Y
814	Fenclofos.Ronnel	W,B,S	N	Y
815	Fendiline	W,B,S	N	Y
816	Fenethylline	W,B,S	N	Y
817	Fenfluoramine	W,B,S	N	Y
818	Fenfluramine	W,B,S	N	Y
819	Fenfuram	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
820	Fenhexamid	W,B,S	N	Y
821	Fenitrothion	W,B,S	N	Y
822	Fenobucarb	W,B,S	N	Y
823	Fenofibrate	W,B,S	N	Y
824	Fenofibric acid	W,B,S	N	Y
825	Fenoprofen	W,B,S	N	Y
826	Fenoprop (Silvex.2.4.5-TP)	W,B,S	N	Y
827	Fenoprop-methylester (Silvex-methylester)	W,B,S	N	Y
828	Fenoterol	W,B,S	N	Y
829	Fenothiocarb	W,B,S	N	Y
830	Fenoxaprop-P	W,B,S	N	Y
831	Fenoxycarb	W,B,S	N	Y
832	Fenpiclonil	W,B,S	N	Y
833	Fenpipramide	W,B,S	N	Y
834	Fenpiprane	W,B,S	N	Y
835	Fenpropathrin	W,B,S	N	Y
836	Fenpropidin	W,B,S	N	Y
837	Fenpropimorph	W,B,S	N	Y
838	Fenproporex (NARL)	W,B,S	N	Y
839	Fenpyroximate	W,B,S	N	Y
840	Fenson	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
841	Fensulfothion	W,B,S	N	Y
842	Fensulfothion-sulfon	W,B,S	N	Y
843	Fentanyl	W,B,S	N	Y
844	Fenthion	W,B,S	N	Y
845	Fenthion-oxon	W,B,S	N	Y
846	Fenthion-sulfon	W,B,S	N	Y
847	Fenthion-sulfoxide	W,B,S	N	Y
848	Fenticonazole	W,B,S	N	Y
849	Fentin (triphenylstannylium)	W,B,S	N	Y
850	Fenuron	W,B,S	N	Y
851	Fenvalerate	W,B,S	N	Y
852	Fexofenadine	W,B,S	N	Y
853	Fipronil sulfone	W,B,S	N	Y
854	Fipronil-desulfinyl	W,B,S	N	Y
855	Fipronil-sulfide	W,B,S	N	Y
856	Flamprop	W,B,S	N	Y
857	Flamprop-isopropyl	W,B,S	N	Y
858	Flazasulfuron	W,B,S	N	Y
859	Flecainide	W,B,S	N	Y
860	Flocoumafen	W,B,S	N	Y
861	Floctafenine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
862	Flonicamid	W,B,S	N	Y
863	Florasulam	W,B,S	N	Y
864	Florfenicol	W,B,S	N	Y
865	Fluacrypyrim	W,B,S	N	Y
866	Fluanisone	W,B,S	N	Y
867	Fluazifop-p-butyl	W,B,S	N	Y
868	Fluazinam	W,B,S	N	Y
869	Fluazuron	W,B,S	N	Y
870	Flubendazole	W,B,S	N	Y
871	Fluchloralin	W,B,S	N	Y
872	Fluconazol	W,B,S	N	Y
873	Fluconazole	W,B,S	N	Y
874	Flucycloxuron	W,B,S	N	Y
875	Fludioxonil	W,B,S	N	Y
876	Fludrocortison Acetate	W,B,S	N	Y
877	Fludrocortisone	W,B,S	N	Y
878	Flufenacet	W,B,S	N	Y
879	Flufenacet-ESA	W,B,S	N	Y
880	Flufenacet-OXA	W,B,S	N	Y
881	Flufenamic acid	W,B,S	N	Y
882	Flufenoxuron	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
883	Flufenzine (Diflovidazin)	W,B,S	N	Y
884	Flumazenil	W,B,S	N	Y
885	Flumequine	W,B,S	N	Y
886	Flumethrin	W,B,S	N	Y
887	Flumetsulam	W,B,S	N	Y
888	Flumioxazin	W,B,S	N	Y
889	Flunitrazepam	W,B,S	N	Y
890	Flunixin	W,B,S	N	Y
891	Fluometuron	W,B,S	N	Y
892	Fluoroglycofen-ethyl	W,B,S	N	Y
893	Fluoxastrobin	W,B,S	N	Y
894	Fluoxetine	W,B,S	N	Y
895	Fluoxymesterone met.2	W,B,S	N	Y
896	Flupentixol	W,B,S	N	Y
897	Fluphenazine	W,B,S	N	Y
898	Flupirtine	W,B,S	N	Y
899	Fluquinconazole	W,B,S	N	Y
900	Flurazepam	W,B,S	N	Y
901	Flurbiprofen	W,B,S	N	Y
902	Fluridone	W,B,S	N	Y
903	Flurochloridone	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
904	Fluroxypyr	W,B,S	N	Y
905	Flurprimidol	W,B,S	N	Y
906	Flurtamone	W,B,S	N	Y
907	Flusilazole	W,B,S	N	Y
908	Fluspirilen	W,B,S	N	Y
909	Flutolanil	W,B,S	N	Y
910	Flutriafol	W,B,S	N	Y
911	Fluvalinate (tau-)	W,B,S	N	Y
912	Fluvastatin	W,B,S	N	Y
913	Fluvoxamine	W,B,S	N	Y
914	Fomesafen	W,B,S	N	Y
915	Fonofos	W,B,S	N	Y
916	Foramsulfuron	W,B,S	N	Y
917	Forchlorfenuron	W,B,S	N	Y
918	Formetanate	W,B,S	N	Y
919	Formoterol fumarate	W,B,S	N	Y
920	Fosinopril	W,B,S	N	Y
921	Fosthiazate	W,B,S	N	Y
922	Fuberidazole	W,B,S	N	Y
923	Furalaxyl	W,B,S	N	Y
924	Furathiocarb	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
925	Furazolidone	W,B,S	N	Y
926	Furilazole	W,B,S	N	Y
927	Furosemide	W,B,S	N	Y
928	Gabapentin	W,B,S	N	Y
929	Galantamine	W,B,S	N	Y
930	Galaxolide	W,B,S	N	Y
931	Galaxolidone	W,B,S	N	Y
932	Gallopamil	W,B,S	N	Y
933	Gemcitabin	W,B,S	N	Y
934	Gentamycin	W,B,S	N	Y
935	Gestrinone	W,B,S	N	Y
936	Gibberellic acid	W,B,S	N	Y
937	Glaphenine	W,B,S	N	Y
938	Glibenclamide	W,B,S	N	Y
939	Glibornuride	W,B,S	N	Y
940	Glimepiride	W,B,S	N	Y
941	Glipizide	W,B,S	N	Y
942	Glufosinate	W,B,S	N	Y
943	Griseofulvin	W,B,S	N	Y
944	Guaifenesin	W,B,S	N	Y
945	Guanabenz	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
946	Guanoxan	W,B,S	N	Y
947	Guanylurea	W,B,S	N	Y
948	Halcinonide	W,B,S	N	Y
949	Halfenprox	W,B,S	N	Y
950	Halofenozide	W,B,S	N	Y
951	Halofuginone	W,B,S	N	Y
952	Haloperidol	W,B,S	N	Y
953	Haloxyfop ethoxyethyl ester	W,B,S	N	Y
954	Harmaline	W,B,S	N	Y
955	Harman	W,B,S	N	Y
956	Harmine	W,B,S	N	Y
957	Harpagoside	W,B,S	N	Y
958	Heliotrine	W,B,S	N	Y
959	Heliotrine-N-oxide	W,B,S	N	Y
960	Heptenophos	W,B,S	N	Y
961	Heroin	W,B,S	N	Y
962	Hexaconazole	W,B,S	N	Y
963	Hexaflumuron	W,B,S	N	Y
964	Hexazinone	W,B,S	N	Y
965	Hexobendine	W,B,S	N	Y
966	Hexythiazox	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
967	HHMA	W,B,S	N	Y
968	Histamine	W,B,S	N	Y
969	Histapyrrodine	W,B,S	N	Y
970	Histidine	W,B,S	N	Y
971	HMA	W,B,S	N	Y
972	HMMA	W,B,S	N	Y
973	Homatropine	W,B,S	N	Y
974	Hordenine	W,B,S	N	Y
975	HU-210	W,B,S	N	Y
976	Hydrochlorthiazide	W,B,S	N	Y
977	Hydrocodone	W,B,S	N	Y
978	Hydrocortisone	W,B,S	N	Y
979	Hydrocortisone 21-acetate	W,B,S	N	Y
980	Hydroflumenthiazide	W,B,S	N	Y
981	Hydromorphone	W,B,S	N	Y
982	Hydroxyalprazolam	W,B,S	N	Y
983	hydroxyamphetamine	W,B,S	N	Y
984	Hydroxychloroquine	W,B,S	N	Y
985	Hydroxycotinine	W,B,S	N	Y
986	Hydroxymesocarb	W,B,S	N	Y
987	Hydroxymethamphetamine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
988	Hydroxyquetiapine	W,B,S	N	Y
989	Hydroxyzine	W,B,S	N	Y
990	Ifosamid	W,B,S	N	Y
991	Imazalil	W,B,S	N	Y
992	Imazamethabenz-methyl	W,B,S	N	Y
993	Imazamox	W,B,S	N	Y
994	Imazapyr	W,B,S	N	Y
995	Imazaquin	W,B,S	N	Y
996	Imazethapyr	W,B,S	N	Y
997	Imazosulfuron	W,B,S	N	Y
998	Imibenconazole	W,B,S	N	Y
999	Imidacloprid	W,B,S	N	Y
1000	Imidacloprid-guanidine	W,B,S	N	Y
1001	Imidacloprid-urea	W,B,S	N	Y
1002	Imidocarb	W,B,S	N	Y
1003	Iminostilben	W,B,S	N	Y
1004	Imipramine	W,B,S	N	Y
1005	Inabenfide	W,B,S	N	Y
1006	Indanazoline	W,B,S	N	Y
1007	Indapamide	W,B,S	N	Y
1008	Indinavir	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1009	Indomethacin	W,B,S	N	Y
1010	indoprofen	W,B,S	N	Y
1011	Indoramin	W,B,S	N	Y
1012	Indoxacarb	W,B,S	N	Y
1013	lobitridol	W,B,S	N	Y
1014	Iodixanol	W,B,S	N	Y
1015	Iodofenphos (Jodfenphos)	W,B,S	N	Y
1016	Iohexol	W,B,S	N	Y
1017	Iomeprol	W,B,S	N	Y
1018	Iopamidol	W,B,S	N	Y
1019	Iopodic acid	W,B,S	N	Y
1020	Iopromid	W,B,S	N	Y
1021	Ioversol	W,B,S	N	Y
1022	Ioxitalamin acid	W,B,S	N	Y
1023	Ioxynil	W,B,S	N	Y
1024	Ipratropium	W,B,S	N	Y
1025	Iprindol	W,B,S	N	Y
1026	Iprobenfos	W,B,S	N	Y
1027	Iprodione	W,B,S	N	Y
1028	Iprovalicarb	W,B,S	N	Y
1029	Irbesartan	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1030	Irbesartan	W,B,S	N	Y
1031	Irgarol	W,B,S	N	Y
1032	Irgarol-descyclopropyl	W,B,S	N	Y
1033	Isazophos	W,B,S	N	Y
1034	Isoaminile	W,B,S	N	Y
1035	Isocarbamid (Azolamide)	W,B,S	N	Y
1036	Isocarbophos	W,B,S	N	Y
1037	Isoconazole	W,B,S	N	Y
1038	Isofenphos	W,B,S	N	Y
1039	Isofenphos-methyl	W,B,S	N	Y
1040	Iso-LSD	W,B,S	N	Y
1041	Isoniazide	W,B,S	N	Y
1042	Isoproc carb	W,B,S	N	Y
1043	Isopropalin	W,B,S	N	Y
1044	Isoproturon	W,B,S	N	Y
1045	Isoproturon-didemethyl = 1-(4-Isopropenyl)urea	W,B,S	N	Y
1046	Isothipendyl	W,B,S	N	Y
1047	Isoxaben	W,B,S	N	Y
1048	Isoxadifen-ethyl	W,B,S	N	Y
1049	Isoxaflutole	W,B,S	N	Y
1050	Isoxathion	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1051	Isoxsuprine	W,B,S	N	Y
1052	Isradipine	W,B,S	N	Y
1053	Ivermectin	W,B,S	N	Y
1054	JWH-007	W,B,S	N	Y
1055	JWH-015	W,B,S	N	Y
1056	JWH-018	W,B,S	N	Y
1057	JWH-018-1-Methyl-Hexyl	W,B,S	N	Y
1058	JWH-018-6-Methoxy-Ind	W,B,S	N	Y
1059	JWH-018-Adamantoyl. AB-001	W,B,S	N	Y
1060	JWH-018-D9	W,B,S	N	Y
1061	JWH-018-M-2-OH-Ind	W,B,S	N	Y
1062	JWH-018-M-4-OH-Ind	W,B,S	N	Y
1063	JWH-018-M-5-OH-Ind	W,B,S	N	Y
1064	JWH-018-M-6-OH-Ind	W,B,S	N	Y
1065	JWH-018-M-7-OH-Ind	W,B,S	N	Y
1066	JWH-018-M-N-4-OH-Pentyl	W,B,S	N	Y
1067	JWH-018-M-N-5-OH-Pentyl	W,B,S	N	Y
1068	JWH-018-M-N-Pentanoic acid	W,B,S	N	Y
1069	JWH-019	W,B,S	N	Y
1070	JWH-073	W,B,S	N	Y
1071	JWH-073-2-Methyl	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1072	JWH-073-3-Methyl	W,B,S	N	Y
1073	JWH-073-M-2-OH-Ind	W,B,S	N	Y
1074	JWH-073-M-3-OH-Butyl	W,B,S	N	Y
1075	JWH-073-M-4-OH-Butyl	W,B,S	N	Y
1076	JWH-073-M-4-OH-Ind	W,B,S	N	Y
1077	JWH-073-M-5-OH-Ind	W,B,S	N	Y
1078	JWH-073-M-6-OH-Ind	W,B,S	N	Y
1079	JWH-073-M-7-OH-Ind	W,B,S	N	Y
1080	JWH-073-M-N-Butanoic acid	W,B,S	N	Y
1081	JWH-081	W,B,S	N	Y
1082	JWH-122	W,B,S	N	Y
1083	JWH-122-F-Pentyl	W,B,S	N	Y
1084	JWH-122-M-N-5-OH-Pentyl	W,B,S	N	Y
1085	JWH-147	W,B,S	N	Y
1086	JWH-200	W,B,S	N	Y
1087	JWH-200-M-4-OH-Ind	W,B,S	N	Y
1088	JWH-201	W,B,S	N	Y
1089	JWH-203	W,B,S	N	Y
1090	JWH-210	W,B,S	N	Y
1091	JWH-250	W,B,S	N	Y
1092	JWH-251	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1093	JWH-302	W,B,S	N	Y
1094	JWH-370	W,B,S	N	Y
1095	JWH-398	W,B,S	N	Y
1096	JWH-412	W,B,S	N	Y
1097	Kavain	W,B,S	N	Y
1098	Ketamine	W,B,S	N	Y
1099	Ketazolam	W,B,S	N	Y
1100	Ketobemidone	W,B,S	N	Y
1101	Ketoprofen	W,B,S	N	Y
1102	Ketorolac	W,B,S	N	Y
1103	Ketotifen	W,B,S	N	Y
1104	Kresoxim-methyl	W,B,S	N	Y
1105	Labetalol	W,B,S	N	Y
1106	Lacosamide	W,B,S	N	Y
1107	Lactofen	W,B,S	N	Y
1108	Lamotrigine	W,B,S	N	Y
1109	Lansoprazole	W,B,S	N	Y
1110	Laudanosine	W,B,S	N	Y
1111	Lenacil	W,B,S	N	Y
1112	Leptophos	W,B,S	N	Y
1113	Lercanidipine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1114	Lethane 384	W,B,S	N	Y
1115	letrozol MT	W,B,S	N	Y
1116	Letrozole	W,B,S	N	Y
1117	Leuco malachite green (LMG)	W,B,S	N	Y
1118	Levamisol	W,B,S	N	Y
1119	Levetiracetam	W,B,S	N	Y
1120	Levobunolol	W,B,S	N	Y
1121	Levocabastine	W,B,S	N	Y
1122	Levofloxacin	W,B,S	N	Y
1123	Levomepromazine	W,B,S	N	Y
1124	Levomepromazine sulfoxide	W,B,S	N	Y
1125	Levopropylhexedrine	W,B,S	N	Y
1126	Lidocaine	W,B,S	N	Y
1127	Lidocaine-N-oxide	W,B,S	N	Y
1128	lincomycin	W,B,S	N	Y
1129	Linezolid	W,B,S	N	Y
1130	Lisinopril	W,B,S	N	Y
1131	Lisuride	W,B,S	N	Y
1132	Lonazolac	W,B,S	N	Y
1133	Loratadine	W,B,S	N	Y
1134	Lorazepam	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1135	Lormetazepam	W,B,S	N	Y
1136	Losartan	W,B,S	N	Y
1137	Lovastatin	W,B,S	N	Y
1138	LSD	W,B,S	N	Y
1139	LSD-OH (2-oxo-3-OH-LSD)	W,B,S	N	Y
1140	Lufenuron	W,B,S	N	Y
1141	Lycopsamine	W,B,S	N	Y
1142	Lycopsamine-N-oxide	W,B,S	N	Y
1143	M1 (Irgarol-descyclopropyl)	W,B,S	N	Y
1144	Mabuterol	W,B,S	N	Y
1145	Malachite green (MG)	W,B,S	N	Y
1146	Malaoxon	W,B,S	N	Y
1147	Malathion	W,B,S	N	Y
1148	Maprotiline	W,B,S	N	Y
1149	marbofloxacin	W,B,S	N	Y
1150	Mazindol	W,B,S	N	Y
1151	MBDB	W,B,S	N	Y
1152	MCPA	W,B,S	N	Y
1153	MCPA-methylester	W,B,S	N	Y
1154	MCPB	W,B,S	N	Y
1155	m-CPP	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1156	MDA	W,B,S	N	Y
1157	MDAI	W,B,S	N	Y
1158	MDAT	W,B,S	N	Y
1159	MDDMA	W,B,S	N	Y
1160	MDEA	W,B,S	N	Y
1161	MDMA	W,B,S	N	Y
1162	MDPBP	W,B,S	N	Y
1163	MDPPP	W,B,S	N	Y
1164	MDPV	W,B,S	N	Y
1165	Mebendazole	W,B,S	N	Y
1166	Mebeverine	W,B,S	N	Y
1167	Mecarbam	W,B,S	N	Y
1168	Meclofenamic acid	W,B,S	N	Y
1169	Meclozine	W,B,S	N	Y
1170	Mecoprop	W,B,S	N	Y
1171	Mecoprop-methylester	W,B,S	N	Y
1172	Medazepam	W,B,S	N	Y
1173	Mefenacet	W,B,S	N	Y
1174	Mefenamic acid	W,B,S	N	Y
1175	Mefenorex	W,B,S	N	Y
1176	Mefenpyr-diethyl	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1177	Mefexamide	W,B,S	N	Y
1178	Mefloquine	W,B,S	N	Y
1179	Mefluidide	W,B,S	N	Y
1180	Mefruside	W,B,S	N	Y
1181	Melamine	W,B,S	N	Y
1182	Melatonin	W,B,S	N	Y
1183	Melitracen	W,B,S	N	Y
1184	Meloxicam	W,B,S	N	Y
1185	Melperone	W,B,S	N	Y
1186	Melphalan	W,B,S	N	Y
1187	Memantine	W,B,S	N	Y
1188	Mepanipirim	W,B,S	N	Y
1189	Meperidine	W,B,S	N	Y
1190	Mephedrone	W,B,S	N	Y
1191	Mepindolol	W,B,S	N	Y
1192	Mepivacaine	W,B,S	N	Y
1193	Me-prednisolone	W,B,S	N	Y
1194	Meprobamate	W,B,S	N	Y
1195	Mepronil	W,B,S	N	Y
1196	Meptazinol	W,B,S	N	Y
1197	Mepyramine. Pyrilamine. Bromth	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1198	Mequitazine	W,B,S	N	Y
1199	Mercaptobenzothiazole	W,B,S	N	Y
1200	Meropenem	W,B,S	N	Y
1201	Mescaline	W,B,S	N	Y
1202	Mesoridazine	W,B,S	N	Y
1203	Mesotrion-MNBA	W,B,S	N	Y
1204	Mesterolone met.1	W,B,S	N	Y
1205	Metaclozapem	W,B,S	N	Y
1206	Metalaxyl	W,B,S	N	Y
1207	Metamitron	W,B,S	N	Y
1208	Metamitron-desamino	W,B,S	N	Y
1209	Metaxalone	W,B,S	N	Y
1210	Metazachlor-ESA	W,B,S	N	Y
1211	Metconazole	W,B,S	N	Y
1212	Metenolone acetate	W,B,S	N	Y
1213	Metformin	W,B,S	N	Y
1214	Methabenzthiazuron	W,B,S	N	Y
1215	Methacrifos	W,B,S	N	Y
1216	Methadone	W,B,S	N	Y
1217	Methamidophos	W,B,S	N	Y
1218	Methamphetamine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1219	Methaphenilene	W,B,S	N	Y
1220	Methaqualone	W,B,S	N	Y
1221	Methazolamide	W,B,S	N	Y
1222	Methcathinone	W,B,S	N	Y
1223	Methedrone	W,B,S	N	Y
1224	Methenolone met.1	W,B,S	N	Y
1225	Methfuroxam	W,B,S	N	Y
1226	Methidathion	W,B,S	N	Y
1227	Methimazole	W,B,S	N	Y
1228	Methiocarb (Mercaptodimethur)	W,B,S	N	Y
1229	Methiocarb-sulfone	W,B,S	N	Y
1230	Methiocarb-sulfoxide	W,B,S	N	Y
1231	Methiopropamine	W,B,S	N	Y
1232	Methocarbamol	W,B,S	N	Y
1233	Methohexital	W,B,S	N	Y
1234	Methomyl	W,B,S	N	Y
1235	Methoprene	W,B,S	N	Y
1236	Methoprotryne	W,B,S	N	Y
1237	Methotrexate	W,B,S	N	Y
1238	Methoxetamine	W,B,S	N	Y
1239	Methoxyfenozide	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1240	Methoxyphenamine	W,B,S	N	Y
1241	Methsuximide	W,B,S	N	Y
1242	Methyl 2-dimethoxyphosphinothioylsulfanylacetate (formothion methanolyse)	W,B,S	N	Y
1243	Methylclothiazide	W,B,S	N	Y
1244	Methylephedrine	W,B,S	N	Y
1245	Methylone (MDMC)	W,B,S	N	Y
1246	Methylphenidate	W,B,S	N	Y
1247	Methylscopolamine	W,B,S	N	Y
1248	Methysergide	W,B,S	N	Y
1249	Metipranolol	W,B,S	N	Y
1250	Metixene	W,B,S	N	Y
1251	Metobromuron	W,B,S	N	Y
1252	Metoclopramide	W,B,S	N	Y
1253	Metolachlor	W,B,S	N	Y
1254	Metolachlor-ESA	W,B,S	N	Y
1255	Metolachlor-Morpholinon	W,B,S	N	Y
1256	Metolachlor-OXA	W,B,S	N	Y
1257	Metolazone	W,B,S	N	Y
1258	Metolcarb	W,B,S	N	Y
1259	Metominostrobin	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1260	Metosulam	W,B,S	N	Y
1261	Metoxuron	W,B,S	N	Y
1262	Metrafenone	W,B,S	N	Y
1263	Metribuzin	W,B,S	N	Y
1264	Metribuzin-Desamino (DA)	W,B,S	N	Y
1265	Metribuzin-Diketo (DK)	W,B,S	N	Y
1266	Metronidazole	W,B,S	N	Y
1267	Metsulfuron-methyl	W,B,S	N	Y
1268	Metyrapone	W,B,S	N	Y
1269	Mevinphos	W,B,S	N	Y
1270	Mexacarbate	W,B,S	N	Y
1271	Mexiletine	W,B,S	N	Y
1272	MGK-264	W,B,S	N	Y
1273	Mianserine	W,B,S	N	Y
1274	Mianserine-N-oxide	W,B,S	N	Y
1275	Miconazole	W,B,S	N	Y
1276	Midazolam	W,B,S	N	Y
1277	Milnacipran	W,B,S	N	Y
1278	Minoxidil	W,B,S	N	Y
1279	Mirtazapine	W,B,S	N	Y
1280	Mizolastine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1281	Moclobemide	W,B,S	N	Y
1282	Modafinil	W,B,S	N	Y
1283	Molinate	W,B,S	N	Y
1284	Molindone	W,B,S	N	Y
1285	Monensin	W,B,S	N	Y
1286	Monocrotaline	W,B,S	N	Y
1287	Monocrotaline-N-oxide	W,B,S	N	Y
1288	Monocrotophos	W,B,S	N	Y
1289	Monolinuron	W,B,S	N	Y
1290	Monuron	W,B,S	N	Y
1291	Moperone	W,B,S	N	Y
1292	Morantel	W,B,S	N	Y
1293	Morphine (MOR)	W,B,S	N	Y
1294	Morphine-3-beta-D-glucuronide	W,B,S	N	Y
1295	Morphine-6-beta-D-glucuronide	W,B,S	N	Y
1296	Moxaverine	W,B,S	N	Y
1297	Moxidectin	W,B,S	N	Y
1298	Moxisylyte	W,B,S	N	Y
1299	Moxonidine	W,B,S	N	Y
1300	Myclobutanil	W,B,S	N	Y
1301	N'-(2 4-Dimethylphenyl)-N-methylformamidine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1302	N.N-Dimethyl-N'-p-tolylsulphamide (DMST)	W,B,S	N	Y
1303	N-2-4-Dimethylphenylformamide (DMF. Metabolite Amitraz)	W,B,S	N	Y
1304	N4-Acetylsulfadiazine	W,B,S	N	Y
1305	N4-Acetylsulfadimethoxine	W,B,S	N	Y
1306	N4-Acetylsulfamethazine	W,B,S	N	Y
1307	N4-Acetylsulfamethoxazole	W,B,S	N	Y
1308	N4-Acetylsulfathiazole	W,B,S	N	Y
1309	Nabumetone	W,B,S	N	Y
1310	Nadolol	W,B,S	N	Y
1311	Naftifine	W,B,S	N	Y
1312	Nalbuphine	W,B,S	N	Y
1313	Naled	W,B,S	N	Y
1314	Nalidixic acid	W,B,S	N	Y
1315	Nalorphine	W,B,S	N	Y
1316	Naloxone	W,B,S	N	Y
1317	Naltrexone	W,B,S	N	Y
1318	Nandrolone	W,B,S	N	Y
1319	Nandrolone phenylpropionate	W,B,S	N	Y
1320	Naphazoline	W,B,S	N	Y
1321	Naphthoxyacetic acid (beta-)	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1322	Naphyrone	W,B,S	N	Y
1323	Napropamide	W,B,S	N	Y
1324	Naptalam (N-1-Naphthylphthalamicacid)	W,B,S	N	Y
1325	Nateglinide	W,B,S	N	Y
1326	N-bisdesmethyl-tramadol	W,B,S	N	Y
1327	N-Desmethyl Citalopram	W,B,S	N	Y
1328	N-desmethyl Clarithromycin	W,B,S	N	Y
1329	N-Desmethylflunitrazepam. Norflunitrazepam	W,B,S	N	Y
1330	N-Desmethylpropafenone	W,B,S	N	Y
1331	N-Desmethylvenlafaxine	W,B,S	N	Y
1332	Nebivolol	W,B,S	N	Y
1333	Neburon	W,B,S	N	Y
1334	Nefazodone	W,B,S	N	Y
1335	Nefopam	W,B,S	N	Y
1336	Neotame	W,B,S	N	Y
1337	N-Et-FOSA	W,B,S	N	Y
1338	N-ethyl-4-methoxybenzamide	W,B,S	N	Y
1339	N-Ethylamphetamine	W,B,S	N	Y
1340	Nicardipine	W,B,S	N	Y
1341	Niclosamide	W,B,S	N	Y
1342	Nicosulfuron	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1343	Nicotinamide	W,B,S	N	Y
1344	Nicotine	W,B,S	N	Y
1345	Nifedipine	W,B,S	N	Y
1346	Nifenazone	W,B,S	N	Y
1347	Niflumic acid	W,B,S	N	Y
1348	Nigericin	W,B,S	N	Y
1349	Nikethamide	W,B,S	N	Y
1350	Nilvadipine	W,B,S	N	Y
1351	nimesulide	W,B,S	N	Y
1352	Nimorazole	W,B,S	N	Y
1353	Nisoldipine	W,B,S	N	Y
1354	N-Isopropylsalicylamide	W,B,S	N	Y
1355	Nitenpyram	W,B,S	N	Y
1356	Nitrazepam	W,B,S	N	Y
1357	Nitrofen	W,B,S	N	Y
1358	Nitrothal-isopropyl	W,B,S	N	Y
1359	Nizatidine	W,B,S	N	Y
1360	N-MBZP	W,B,S	N	Y
1361	N-Me-FOSA	W,B,S	N	Y
1362	Nomifensine	W,B,S	N	Y
1363	Norbuprenorphine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1364	Norcitalopram	W,B,S	N	Y
1365	Norclomipramine	W,B,S	N	Y
1366	Norclozapine	W,B,S	N	Y
1367	Norcodeine	W,B,S	N	Y
1368	Nordeprenyl	W,B,S	N	Y
1369	Nordextropropoxyphene	W,B,S	N	Y
1370	Nordiazepam	W,B,S	N	Y
1371	Nordiltiazem	W,B,S	N	Y
1372	Nordoxepin	W,B,S	N	Y
1373	Norephedrine (Cathin. Phenylpropanolamine)	W,B,S	N	Y
1374	Norethandrolone met.1	W,B,S	N	Y
1375	Norethisterone acetate	W,B,S	N	Y
1376	Norfenefrine	W,B,S	N	Y
1377	Norfenfluramine	W,B,S	N	Y
1378	Norfentanyl	W,B,S	N	Y
1379	Norfloxacin	W,B,S	N	Y
1380	Norfluoxetine	W,B,S	N	Y
1381	Norflurazon	W,B,S	N	Y
1382	Norketamine	W,B,S	N	Y
1383	Norlevomepromazine	W,B,S	N	Y
1384	Norlidocaine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1385	Nor-LSD.Nor-iso-LSD	W,B,S	N	Y
1386	Normethadone	W,B,S	N	Y
1387	Normianserine	W,B,S	N	Y
1388	Normirtazapine	W,B,S	N	Y
1389	Normorphine	W,B,S	N	Y
1390	Nororphenadrine. Tofenacin. Elamol	W,B,S	N	Y
1391	Noroxycodone	W,B,S	N	Y
1392	Norpheniramine	W,B,S	N	Y
1393	Norsertaline	W,B,S	N	Y
1394	Norsibutramine	W,B,S	N	Y
1395	Norsildenafil	W,B,S	N	Y
1396	Nortetrazepam	W,B,S	N	Y
1397	Nortilidine	W,B,S	N	Y
1398	Nortramadol	W,B,S	N	Y
1399	Nortrimipramine	W,B,S	N	Y
1400	Nortriptyline	W,B,S	N	Y
1401	Norvenlafaxine (N-desmethyl venlafaxine)	W,B,S	N	Y
1402	Norverapamil	W,B,S	N	Y
1403	Noscapine	W,B,S	N	Y
1404	Novaluron	W,B,S	N	Y
1405	Noviflumuron	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1406	Novobiocin	W,B,S	N	Y
1407	N-Propylamphetamine	W,B,S	N	Y
1408	Nuarimol	W,B,S	N	Y
1409	Nystatin	W,B,S	N	Y
1410	O.O.O-Triethylphosphorothioate	W,B,S	N	Y
1411	Obidoxime	W,B,S	N	Y
1412	o-Chlorophenylpiperazine	W,B,S	N	Y
1413	Octocrylene	W,B,S	N	Y
1414	Octopamine	W,B,S	N	Y
1415	O-Desmethyldinortramadol	W,B,S	N	Y
1416	O-Desmethylnortramadol	W,B,S	N	Y
1417	O-Desmethylsulpiride	W,B,S	N	Y
1418	O-Desmethyltramadol	W,B,S	N	Y
1419	O-Desmethylvenlafaxine. Desvenlafaxine	W,B,S	N	Y
1420	Ofloxacin	W,B,S	N	Y
1421	Ofurace	W,B,S	N	Y
1422	Olanzapine	W,B,S	N	Y
1423	Olopatadine	W,B,S	N	Y
1424	Olsalazine	W,B,S	N	Y
1425	Omeprazole	W,B,S	N	Y
1426	Omethoate	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1427	Ondansetron	W,B,S	N	Y
1428	Opipramol	W,B,S	N	Y
1429	Orbencarb	W,B,S	N	Y
1430	ORG 27569	W,B,S	N	Y
1431	Ornidazole	W,B,S	N	Y
1432	Orphenadrine	W,B,S	N	Y
1433	Oryzalin	W,B,S	N	Y
1434	Oseltamivir	W,B,S	N	Y
1435	Oseltamivir-carboxylate	W,B,S	N	Y
1436	o-toluenesulfonamide	W,B,S	N	Y
1437	Oxadiargyl	W,B,S	N	Y
1438	Oxadiazon	W,B,S	N	Y
1439	Oxadixyl	W,B,S	N	Y
1440	Oxamyl	W,B,S	N	Y
1441	Oxasulfuron	W,B,S	N	Y
1442	Oxatomide	W,B,S	N	Y
1443	Oxazepam	W,B,S	N	Y
1444	Oxcarbazepine	W,B,S	N	Y
1445	Oxeladin	W,B,S	N	Y
1446	Oxetacaine	W,B,S	N	Y
1447	Oxfendazole	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1448	Oxitropium	W,B,S	N	Y
1449	Oxolinic acid	W,B,S	N	Y
1450	Oxomemazine	W,B,S	N	Y
1451	Oxprenolol	W,B,S	N	Y
1452	Oxybuprocaine	W,B,S	N	Y
1453	Oxybutynin	W,B,S	N	Y
1454	Oxycarboxin	W,B,S	N	Y
1455	Oxycodone	W,B,S	N	Y
1456	Oxydemeton-methyl	W,B,S	N	Y
1457	Oxyfedrine	W,B,S	N	Y
1458	Oxyfluorfen	W,B,S	N	Y
1459	Oxymetazoline	W,B,S	N	Y
1460	Oxymorphone	W,B,S	N	Y
1461	Oxypendyl	W,B,S	N	Y
1462	Oxypertine	W,B,S	N	Y
1463	oxyphenbutazone	W,B,S	N	Y
1464	Oxyphencyclimine	W,B,S	N	Y
1465	p,p-Dichlorobenzophenone	W,B,S	N	Y
1466	Paclobutrazole	W,B,S	N	Y
1467	Paliperidone (9-OH-Risperidone)	W,B,S	N	Y
1468	Papaverine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1469	Paracetamol	W,B,S	N	Y
1470	Para-fluorofentanyl	W,B,S	N	Y
1471	Paraoxon	W,B,S	N	Y
1472	Paraoxon-methyl	W,B,S	N	Y
1473	Parathion	W,B,S	N	Y
1474	Parathion-methyl	W,B,S	N	Y
1475	Paroxetine	W,B,S	N	Y
1476	PCP	W,B,S	N	Y
1477	Pebulate	W,B,S	N	Y
1478	Pemoline	W,B,S	N	Y
1479	Penbutolol	W,B,S	N	Y
1480	Penciclovir	W,B,S	N	Y
1481	Penconazole	W,B,S	N	Y
1482	Pencycuron	W,B,S	N	Y
1483	Pendimethalin	W,B,S	N	Y
1484	Penfluridol	W,B,S	N	Y
1485	Penfluron	W,B,S	N	Y
1486	Pentanochlor	W,B,S	N	Y
1487	Pentazocine	W,B,S	N	Y
1488	Pentedrone	W,B,S	N	Y
1489	Pentifylline	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1490	Pentobarbital	W,B,S	N	Y
1491	Pentoxifylline	W,B,S	N	Y
1492	Pentoxyverine	W,B,S	N	Y
1493	Pentylone	W,B,S	N	Y
1494	Perazine	W,B,S	N	Y
1495	Pergolide	W,B,S	N	Y
1496	Periciazine	W,B,S	N	Y
1497	Perindopril	W,B,S	N	Y
1498	Permethrin (cis-)	W,B,S	N	Y
1499	Perphenazine	W,B,S	N	Y
1500	Pethidine	W,B,S	N	Y
1501	Pethoxamid	W,B,S	N	Y
1502	PFBuS	W,B,S	N	Y
1503	PFDeA	W,B,S	N	Y
1504	PFDeS	W,B,S	N	Y
1505	PFDoA	W,B,S	N	Y
1506	PFHpA	W,B,S	N	Y
1507	PFHps	W,B,S	N	Y
1508	PFHxA	W,B,S	N	Y
1509	PFHxS	W,B,S	N	Y
1510	PFNA	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1511	PFOS	W,B,S	N	Y
1512	PFOSA	W,B,S	N	Y
1513	PFPeA	W,B,S	N	Y
1514	PFTeDA	W,B,S	N	Y
1515	PFTrDA	W,B,S	N	Y
1516	PFUnA	W,B,S	N	Y
1517	Phenacetin	W,B,S	N	Y
1518	Phenazepam	W,B,S	N	Y
1519	Phenazocine	W,B,S	N	Y
1520	Phenazone	W,B,S	N	Y
1521	Phenazopyridine	W,B,S	N	Y
1522	Phencyclidine	W,B,S	N	Y
1523	Phenelzine	W,B,S	N	Y
1524	Pheniramine	W,B,S	N	Y
1525	Pheniramine-N-oxide	W,B,S	N	Y
1526	Phenmedipham	W,B,S	N	Y
1527	Phenmetrazine	W,B,S	N	Y
1528	Phenothrin	W,B,S	N	Y
1529	Phenoxybenzamide	W,B,S	N	Y
1530	Phenprocoumon	W,B,S	N	Y
1531	Phentermine	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1532	Phenthoate	W,B,S	N	Y
1533	Phentolamine	W,B,S	N	Y
1534	Phenylbutazone	W,B,S	N	Y
1535	Phenylephrine	W,B,S	N	Y
1536	Phenyltoloxamine	W,B,S	N	Y
1537	Phenytoin	W,B,S	N	Y
1538	Pholcodine	W,B,S	N	Y
1539	Pholedrine	W,B,S	N	Y
1540	Phorate	W,B,S	N	Y
1541	Phorate-oxon	W,B,S	N	Y
1542	Phosalone	W,B,S	N	Y
1543	Phosmet	W,B,S	N	Y
1544	Phosphamidon (Dimecron)	W,B,S	N	Y
1545	Phoxim	W,B,S	N	Y
1546	Phthalylsulfathiazole	W,B,S	N	Y
1547	Physostigmine	W,B,S	N	Y
1548	Picaridin (Icaridin)	W,B,S	N	Y
1549	Picloram	W,B,S	N	Y
1550	Picolinafen	W,B,S	N	Y
1551	Pilocarpine	W,B,S	N	Y
1552	Pimozide	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1553	Pindolol	W,B,S	N	Y
1554	Pioglitazone	W,B,S	N	Y
1555	Pipamperone	W,B,S	N	Y
1556	Piperonyl butoxide	W,B,S	N	Y
1557	Pipotiazine	W,B,S	N	Y
1558	Pipradrol	W,B,S	N	Y
1559	Piprozolin	W,B,S	N	Y
1560	Pirenzepine	W,B,S	N	Y
1561	Piretanide	W,B,S	N	Y
1562	Pirimicarb	W,B,S	N	Y
1563	Pirimicarb-desmethyl	W,B,S	N	Y
1564	Pirimiphos-ethyl	W,B,S	N	Y
1565	Pirimiphos-methyl	W,B,S	N	Y
1566	Piritramide	W,B,S	N	Y
1567	Pirmenol	W,B,S	N	Y
1568	Piroxicam	W,B,S	N	Y
1569	Pitofenone	W,B,S	N	Y
1570	Pizotifen	W,B,S	N	Y
1571	PMA	W,B,S	N	Y
1572	PMMA	W,B,S	N	Y
1573	polythiazide	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1574	Practolol	W,B,S	N	Y
1575	Prajmaline	W,B,S	N	Y
1576	Pramipexole	W,B,S	N	Y
1577	Pravastatin	W,B,S	N	Y
1578	Prazepam	W,B,S	N	Y
1579	Praziquantel	W,B,S	N	Y
1580	Prazosin	W,B,S	N	Y
1581	Prednisolon	W,B,S	N	Y
1582	Prednisone	W,B,S	N	Y
1583	Pregabalin	W,B,S	N	Y
1584	Prenylamine	W,B,S	N	Y
1585	Pretilachlor	W,B,S	N	Y
1586	Prilocain	W,B,S	N	Y
1587	Prilocaine	W,B,S	N	Y
1588	Primaquine	W,B,S	N	Y
1589	Primidone	W,B,S	N	Y
1590	Proadifen	W,B,S	N	Y
1591	probenecid	W,B,S	N	Y
1592	Procainamide	W,B,S	N	Y
1593	Procaine	W,B,S	N	Y
1594	Prochloraz	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1595	Prochlorperazine	W,B,S	N	Y
1596	Procyclidine	W,B,S	N	Y
1597	Procymidone	W,B,S	N	Y
1598	Profenophos	W,B,S	N	Y
1599	Profoxydim	W,B,S	N	Y
1600	Progesterone	W,B,S	N	Y
1601	Proguanil	W,B,S	N	Y
1602	Prohexadione	W,B,S	N	Y
1603	Prolinamide	W,B,S	N	Y
1604	Prolintane	W,B,S	N	Y
1605	Promazine	W,B,S	N	Y
1606	Promecarb	W,B,S	N	Y
1607	Promethazine	W,B,S	N	Y
1608	Prometon	W,B,S	N	Y
1609	Prometryn	W,B,S	N	Y
1610	Propachlor	W,B,S	N	Y
1611	Propachlor-ESA	W,B,S	N	Y
1612	Propachlor-OXA	W,B,S	N	Y
1613	Propafenone	W,B,S	N	Y
1614	Propamocarb	W,B,S	N	Y
1615	Propanil	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1616	Propantheline	W,B,S	N	Y
1617	Propaphos	W,B,S	N	Y
1618	Propaquizafof	W,B,S	N	Y
1619	Propargite	W,B,S	N	Y
1620	Propazine	W,B,S	N	Y
1621	Propazine-2-hydroxy (=Prometon-Hydroxy)	W,B,S	N	Y
1622	Propetamphos	W,B,S	N	Y
1623	Propham	W,B,S	N	Y
1624	Propionylpromazine	W,B,S	N	Y
1625	Propipocaine	W,B,S	N	Y
1626	Propiverine	W,B,S	N	Y
1627	Propoxur	W,B,S	N	Y
1628	Propranolol	W,B,S	N	Y
1629	Propyphenazone	W,B,S	N	Y
1630	Propyzamide (Pronamide)	W,B,S	N	Y
1631	Proquazone	W,B,S	N	Y
1632	Proquinazid	W,B,S	N	Y
1633	Prosulfocarb	W,B,S	N	Y
1634	Prosulfuron	W,B,S	N	Y
1635	Prothioconazole	W,B,S	N	Y
1636	Prothioconazole-desethio	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1637	Prothipendyl	W,B,S	N	Y
1638	Protionamide	W,B,S	N	Y
1639	Protriptyline	W,B,S	N	Y
1640	Proxyphylline	W,B,S	N	Y
1641	Pseudoephedrine	W,B,S	N	Y
1642	Psilocin	W,B,S	N	Y
1643	p-toluenesulfonamide	W,B,S	N	Y
1644	Pymetrozine	W,B,S	N	Y
1645	Pyraclostrobin	W,B,S	N	Y
1646	Pyraflufen-ethyl	W,B,S	N	Y
1647	Pyranocoumarin	W,B,S	N	Y
1648	Pyrazophos	W,B,S	N	Y
1649	Pyrazoxyfen	W,B,S	N	Y
1650	Pyrethrin	W,B,S	N	Y
1651	Pyrethrins: Cinerin	W,B,S	N	Y
1652	Pyrethrins: Jasmolin	W,B,S	N	Y
1653	Pyribenzamine (Tripeleamine. Azaron)	W,B,S	N	Y
1654	Pyributicarb	W,B,S	N	Y
1655	Pyridaben	W,B,S	N	Y
1656	Pyridaphenthion	W,B,S	N	Y
1657	Pyridate	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1658	Pyridoxine	W,B,S	N	Y
1659	Pyrifenox	W,B,S	N	Y
1660	Pyrilamine	W,B,S	N	Y
1661	Pyrimethamine	W,B,S	N	Y
1662	Pyrimethanil	W,B,S	N	Y
1663	Pyrimidifen	W,B,S	N	Y
1664	Pyrimidinol	W,B,S	N	Y
1665	Pyriproxifen	W,B,S	N	Y
1666	Pyritinol	W,B,S	N	Y
1667	Pyrovalerone	W,B,S	N	Y
1668	Pyrvinium	W,B,S	N	Y
1669	Quetiapine	W,B,S	N	Y
1670	Quinalphos	W,B,S	N	Y
1671	Quinapril	W,B,S	N	Y
1672	Quinclorac	W,B,S	N	Y
1673	Quinidine	W,B,S	N	Y
1674	Quinine	W,B,S	N	Y
1675	Quinmerac	W,B,S	N	Y
1676	Quinoxypfen	W,B,S	N	Y
1677	Quizalofop	W,B,S	N	Y
1678	Quizalofop-ethyl	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1679	Rabenzazole	W,B,S	N	Y
1680	Ractopamine	W,B,S	N	Y
1681	Rafoxanide	W,B,S	N	Y
1682	Raloxifene	W,B,S	N	Y
1683	Ramifenazone	W,B,S	N	Y
1684	Ramipril	W,B,S	N	Y
1685	Ranitidine	W,B,S	N	Y
1686	Ranitidine-N-oxide	W,B,S	N	Y
1687	Ranitidine-S-oxide	W,B,S	N	Y
1688	Raubasine	W,B,S	N	Y
1689	RCS-4	W,B,S	N	Y
1690	RCS-4-M-5-COOH-Pentyl	W,B,S	N	Y
1691	RCS-4-M-5-OH-Pentyl	W,B,S	N	Y
1692	RCS-8	W,B,S	N	Y
1693	Reboxetine	W,B,S	N	Y
1694	Remifentanyl	W,B,S	N	Y
1695	Remoxipride	W,B,S	N	Y
1696	Repaglinide	W,B,S	N	Y
1697	Reproterol	W,B,S	N	Y
1698	Reserpine	W,B,S	N	Y
1699	Resmethrin	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1700	Resveratrol	W,B,S	N	Y
1701	Retrorsine	W,B,S	N	Y
1702	Retrorsine-N-oxide	W,B,S	N	Y
1703	Ribavirin	W,B,S	N	Y
1704	Rifaximin	W,B,S	N	Y
1705	Riluzole	W,B,S	N	Y
1706	Rimantadin	W,B,S	N	Y
1707	Rimsulfuron	W,B,S	N	Y
1708	Risperidone	W,B,S	N	Y
1709	Ritalinic acid	W,B,S	N	Y
1710	Ritonavir	W,B,S	N	Y
1711	Rivastigmine	W,B,S	N	Y
1712	Rizatriptan	W,B,S	N	Y
1713	Robenidine	W,B,S	N	Y
1714	Ronidazole	W,B,S	N	Y
1715	Ropinirole	W,B,S	N	Y
1716	Ropivacaine	W,B,S	N	Y
1717	Rosiglitazone	W,B,S	N	Y
1718	Rosuvastatin	W,B,S	N	Y
1719	Rotenone	W,B,S	N	Y
1720	Roxithromycin	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1721	Saccharine	W,B,S	N	Y
1722	Salbutamol	W,B,S	N	Y
1723	Salicylamide	W,B,S	N	Y
1724	Salicylic acid	W,B,S	N	Y
1725	salinomycin	W,B,S	N	Y
1726	Salmeterol	W,B,S	N	Y
1727	Sarafloxacin	W,B,S	N	Y
1728	Schradan	W,B,S	N	Y
1729	Scopolamine	W,B,S	N	Y
1730	Sebuthylazine	W,B,S	N	Y
1731	Secbumeton	W,B,S	N	Y
1732	Selegiline	W,B,S	N	Y
1733	Semduramicin	W,B,S	N	Y
1734	Semicarbazide (SEM)	W,B,S	N	Y
1735	Senecionine	W,B,S	N	Y
1736	Senecionine-N-oxide	W,B,S	N	Y
1737	Seneciphylline	W,B,S	N	Y
1738	Seneciphylline-N-oxide	W,B,S	N	Y
1739	Senkirkine	W,B,S	N	Y
1740	Sertindole	W,B,S	N	Y
1741	Sertraline	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1742	Sethoxydim	W,B,S	N	Y
1743	Sibutramine	W,B,S	N	Y
1744	Siduron	W,B,S	N	Y
1745	Sildenafil	W,B,S	N	Y
1746	Simazine	W,B,S	N	Y
1747	Simazine 2-Hydroxy	W,B,S	N	Y
1748	Simetryn	W,B,S	N	Y
1749	Simvastatin	W,B,S	N	Y
1750	Sitagliptin	W,B,S	N	Y
1751	Sotalol	W,B,S	N	Y
1752	Spinosad A (Spinosyn A)	W,B,S	N	Y
1753	Spinosad D	W,B,S	N	Y
1754	Spinosyn B or K	W,B,S	N	Y
1755	Spirapril	W,B,S	N	Y
1756	Spirodiclofen	W,B,S	N	Y
1757	Spiromesifen	W,B,S	N	Y
1758	Spirolacton	W,B,S	N	Y
1759	Spiroxamine	W,B,S	N	Y
1760	Strychnine	W,B,S	N	Y
1761	STS-135	W,B,S	N	Y
1762	Sudan I	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1763	Sudan II	W,B,S	N	Y
1764	Sufentanil	W,B,S	N	Y
1765	Sulcotrione	W,B,S	N	Y
1766	Sulfabenzamide	W,B,S	N	Y
1767	sulfachloropyridazine	W,B,S	N	Y
1768	Sulfaclomide	W,B,S	N	Y
1769	sulfaclozine	W,B,S	N	Y
1770	Sulfadiazine	W,B,S	N	Y
1771	Sulfadimethoxine	W,B,S	N	Y
1772	Sulfadoxine	W,B,S	N	Y
1773	Sulfaethidole	W,B,S	N	Y
1774	Sulfaguanidine	W,B,S	N	Y
1775	Sulfalene	W,B,S	N	Y
1776	Sulfamerazine	W,B,S	N	Y
1777	Sulfameter (sulfumetin)	W,B,S	N	Y
1778	Sulfamethizole	W,B,S	N	Y
1779	Sulfamethoxazole	W,B,S	N	Y
1780	Sulfamethoxypyridazine	W,B,S	N	Y
1781	Sulfamonomethoxine	W,B,S	N	Y
1782	Sulfamoxole	W,B,S	N	Y
1783	Sulfanilamide	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1784	Sulfapyridine	W,B,S	N	Y
1785	Sulfaquinoxaline	W,B,S	N	Y
1786	Sulfasalazine	W,B,S	N	Y
1787	Sulfathiazole	W,B,S	N	Y
1788	Sulfinpyrazone	W,B,S	N	Y
1789	sulfisoxazole	W,B,S	N	Y
1790	Sulfoguanidine	W,B,S	N	Y
1791	Sulfometuron-methyl	W,B,S	N	Y
1792	Sulfotepp	W,B,S	N	Y
1793	Sulindac	W,B,S	N	Y
1794	Sulpiride	W,B,S	N	Y
1795	Sulprofos (Bolstar)	W,B,S	N	Y
1796	Sulthiame	W,B,S	N	Y
1797	Sumatriptan	W,B,S	N	Y
1798	suprofen	W,B,S	N	Y
1799	Suxibuzone	W,B,S	N	Y
1800	SWEP.MCC	W,B,S	N	Y
1801	Synephrine	W,B,S	N	Y
1802	Tacrine	W,B,S	N	Y
1803	Tadalafil	W,B,S	N	Y
1804	Talinolol	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1805	Tamoxifen	W,B,S	N	Y
1806	Tamoxifen-3-OH-4-MEOMT	W,B,S	N	Y
1807	TCMTB	W,B,S	N	Y
1808	Tebuconazole	W,B,S	N	Y
1809	Tebufenozide	W,B,S	N	Y
1810	Tebufenpyrad	W,B,S	N	Y
1811	Tebupirimphos	W,B,S	N	Y
1812	Tebutame	W,B,S	N	Y
1813	Tebuthiuron	W,B,S	N	Y
1814	Teflubenzuron	W,B,S	N	Y
1815	Tefluthrin	W,B,S	N	Y
1816	Telmisartan	W,B,S	N	Y
1817	Temazepam	W,B,S	N	Y
1818	Temephos	W,B,S	N	Y
1819	Tenofovir	W,B,S	N	Y
1820	TEPP	W,B,S	N	Y
1821	Tepraloxydim	W,B,S	N	Y
1822	Terazosin	W,B,S	N	Y
1823	Terbacil	W,B,S	N	Y
1824	Terbinafine	W,B,S	N	Y
1825	Terbufos	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1826	Terbufos sulfone	W,B,S	N	Y
1827	Terbufos-sulfoxid	W,B,S	N	Y
1828	Terbumeton	W,B,S	N	Y
1829	Terbutaline	W,B,S	N	Y
1830	Terbutylazine-2-hydroxy	W,B,S	N	Y
1831	Terbutylazine-desethyl-2-hydroxy	W,B,S	N	Y
1832	Terbutryn	W,B,S	N	Y
1833	Terconazole	W,B,S	N	Y
1834	Terfenadine	W,B,S	N	Y
1835	Ternidazole	W,B,S	N	Y
1836	Terodiline	W,B,S	N	Y
1837	Tertatolol	W,B,S	N	Y
1838	Testosterone benzoate	W,B,S	N	Y
1839	Tetracaine	W,B,S	N	Y
1840	Tetrachlorvinphos (Stirofos)	W,B,S	N	Y
1841	Tetraconazole	W,B,S	N	Y
1842	Tetramethrin	W,B,S	N	Y
1843	Tetrazepam	W,B,S	N	Y
1844	Tetroxoprim	W,B,S	N	Y
1845	Tetryzoline	W,B,S	N	Y
1846	TFMPP	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1847	THC	W,B,S	N	Y
1848	THC-COOH. 11-COOH-THC. 11-nor-9-Carboxy-THC	W,B,S	N	Y
1849	THC-OH. 11-OH-THC	W,B,S	N	Y
1850	THE (Tetrahydrocortisone)	W,B,S	N	Y
1851	Thebacon	W,B,S	N	Y
1852	Thenylchlor	W,B,S	N	Y
1853	Theobromine	W,B,S	N	Y
1854	Theophylline	W,B,S	N	Y
1855	THF (Tetrahydrocortisol)	W,B,S	N	Y
1856	Thiabendazole	W,B,S	N	Y
1857	Thiacloprid	W,B,S	N	Y
1858	Thiacloprid-amide	W,B,S	N	Y
1859	Thiamethoxam	W,B,S	N	Y
1860	Thiamphenicol	W,B,S	N	Y
1861	Thiazopyr	W,B,S	N	Y
1862	Thidiazuron	W,B,S	N	Y
1863	Thiethylperazine	W,B,S	N	Y
1864	Thifensulfuron-methyl	W,B,S	N	Y
1865	Thiobencarb	W,B,S	N	Y
1866	Thiocyclam	W,B,S	N	Y
1867	Thiodicarb	W,B,S	N	Y



No.	BSSP	Matrix	Accreditation ISO 17025 Y/N]	Validated [Y/N]
1868	Thiofanox	W,B,S	N	Y
1869	Thioguanine	W,B,S	N	Y
1870	Thiometon	W,B,S	N	Y
1871	Thionazin (Zinophos)	W,B,S	N	Y
1872	Thiopental	W,B,S	N	Y
1873	Thiophanate-methyl	W,B,S	N	Y
1874	Thiophanat-ethyl	W,B,S	N	Y
1875	Thiopropazate	W,B,S	N	Y
1876	Thioproperazine	W,B,S	N	Y
1877	Thioridazine	W,B,S	N	Y
1878	Thioridazine-5-sulfoxide	W,B,S	N	Y
1879	Thiosalicylic acid	W,B,S	N	Y
1880	Thiothixene	W,B,S	N	Y
1881	Thiram (Tetramethylthiuramdisulfide.TMTD)	W,B,S	N	Y
1882	Tiagabine	W,B,S	N	Y
1883	Tiamulin	W,B,S	N	Y
1884	Tiapride	W,B,S	N	Y
1885	Ticlopidine	W,B,S	N	Y
1886	Tiemonium	W,B,S	N	Y
1887	Tilidine	W,B,S	N	Y



1888	Tilimicosin	W,B,S	N	Y
1889	Timolol	W,B,S	N	Y
1890	Tinidazole	W,B,S	N	Y
1891	Tiocarbazil	W,B,S	N	Y
1892	Tiocarlid	W,B,S	N	Y
1893	Tizanidine	W,B,S	N	Y
1894	TMA	W,B,S	N	Y
1895	Tokuthion (Prothiophos)	W,B,S	N	Y
1896	Tolazamide	W,B,S	N	Y
1897	Tolazoline	W,B,S	N	Y
1898	Tolbutamide	W,B,S	N	Y
1899	Tolclofos-methyl	W,B,S	N	Y
1900	Tolfenpyrad	W,B,S	N	Y
1901	Toliprolol	W,B,S	N	Y
1902	Tolmetin	W,B,S	N	Y
1903	Tolnaftate	W,B,S	N	Y
1904	Tolpropamine	W,B,S	N	Y
1905	Toltrazuril	W,B,S	N	Y
1906	Tolycaine	W,B,S	N	Y
1907	Tolyfluanid	W,B,S	N	Y
1908	Topiramate	W,B,S	N	Y
1909	Torasemide	W,B,S	N	Y
1910	Toremifene	W,B,S	N	Y
1911	Tralkoxydim	W,B,S	N	Y



1912	Tralomethrin	W,B,S	N	Y
1913	Tramadol	W,B,S	N	Y
1914	Tramadol-N-oxide	W,B,S	N	Y
1915	Tranexamic acid	W,B,S	N	Y
1916	Trans-3-methylfentanyl	W,B,S	N	Y
1917	Tranlycypromine	W,B,S	N	Y
1918	Trapidil	W,B,S	N	Y
1919	Trazodone	W,B,S	N	Y
1920	trenbolone	W,B,S	N	Y
1921	Triadimefon	W,B,S	N	Y
1922	Triadimenol	W,B,S	N	Y
1923	Triallate	W,B,S	N	Y
1924	Triamcinolone	W,B,S	N	Y
1925	Triamterene	W,B,S	N	Y
1926	Triasulfuron	W,B,S	N	Y
1927	Triazamate	W,B,S	N	Y
1928	Triazolam	W,B,S	N	Y
1929	Triazophos	W,B,S	N	Y
1930	Triazoxide	W,B,S	N	Y
1931	Tribenuron-methyl	W,B,S	N	Y
1932	Tribufos (Merphos oxide. DEF)	W,B,S	N	Y
1933	Tributylamin	W,B,S	N	Y
1934	Trichlorfon (Dylox)	W,B,S	N	Y
1935	Trichlormethiazide	W,B,S	N	Y



1936	Trichloronate	W,B,S	N	Y
1937	Triclabendazole	W,B,S	N	Y
1938	Triclocarban	W,B,S	N	Y
1939	Triclopyr	W,B,S	N	Y
1940	Triclopyr-methylester	W,B,S	N	Y
1941	triclosan	W,B,S	N	Y
1942	Tricyclazole	W,B,S	N	Y
1943	Trietazine	W,B,S	N	Y
1944	Triethylphosphate	W,B,S	N	Y
1945	Trifloxystrobin	W,B,S	N	Y
1946	Trifloxysulfuron	W,B,S	N	Y
1947	Triflumizole	W,B,S	N	Y
1948	Triflumuron	W,B,S	N	Y
1949	Trifluoperazine	W,B,S	N	Y
1950	Trifluperidol	W,B,S	N	Y
1951	Triflupromazine	W,B,S	N	Y
1952	Triflusulfuron-methyl	W,B,S	N	Y
1953	Triforine	W,B,S	N	Y
1954	Triforine	W,B,S	N	Y
1955	Trihexyphenidyl. Benzhexol	W,B,S	N	Y
1956	Trimeprazine	W,B,S	N	Y
1957	Trimethacarb (2.3.5-)	W,B,S	N	Y
1958	Trimethacarb (3.4.5-)	W,B,S	N	Y
1959	Trimethobenzamide	W,B,S	N	Y



1960	Trimethoprim	W,B,S	N	Y
1961	Trimipramine	W,B,S	N	Y
1962	Trinexapac acid	W,B,S	N	Y
1963	Trinexapac-ethyl	W,B,S	N	Y
1964	Triperiden	W,B,S	N	Y
1965	Triphenylphosphate	W,B,S	N	Y
1966	Tripolidine	W,B,S	N	Y
1967	Triticonazole	W,B,S	N	Y
1968	Tritoqualine	W,B,S	N	Y
1969	Tromantadine	W,B,S	N	Y
1970	Tropicamide	W,B,S	N	Y
1971	Tropisetron	W,B,S	N	Y
1972	Trospium	W,B,S	N	Y
1973	Tulobuterol	W,B,S	N	Y
1974	Tylosin	W,B,S	N	Y
1975	Tyramine	W,B,S	N	Y
1976	Uniconazole	W,B,S	N	Y
1977	UR-144	W,B,S	N	Y
1978	Ursodeoxycholic acid	W,B,S	N	Y
1979	Valdecoxib	W,B,S	N	Y
1980	Valganciclovir	W,B,S	N	Y
1981	Valproic acid	W,B,S	N	Y
1982	Valsartan	W,B,S	N	Y
1983	Vamidotion	W,B,S	N	Y



1984	Vancomycin	W,B,S	N	Y
1985	Vardenafil	W,B,S	N	Y
1986	Varenicline	W,B,S	N	Y
1987	Vedaprofen	W,B,S	N	Y
1988	Vegadex (Sulfallate)	W,B,S	N	Y
1989	Venlafaxine	W,B,S	N	Y
1990	Venlafaxine-N-desmethyl	W,B,S	N	Y
1991	Venlafaxine-N-oxide	W,B,S	N	Y
1992	Verapamil	W,B,S	N	Y
1993	Vernolate	W,B,S	N	Y
1994	Vigabatrin	W,B,S	N	Y
1995	Vildagliptin	W,B,S	N	Y
1996	Vincamine	W,B,S	N	Y
1997	Warfarin	W,B,S	N	Y
1998	WIN-48-098	W,B,S	N	Y
1999	WIN-55-212-2	W,B,S	N	Y
2000	Xanthinol	W,B,S	N	Y
2001	Xipamide	W,B,S	N	Y
2002	XMC	W,B,S	N	Y
2003	Xylometazoline	W,B,S	N	Y
2004	Yohimbine	W,B,S	N	Y
2005	Zaleplon	W,B,S	N	Y
2006	Zidovudine	W,B,S	N	Y
2007	Zimelidine hydrochloride	W,B,S	N	Y



2008	Ziprasidone	W,B,S	N	Y
2009	Zolmitriptan	W,B,S	N	Y
2010	Zolpidem	W,B,S	N	Y
2011	Zonisamide	W,B,S	N	Y
2012	Zopiclone	W,B,S	N	Y
2013	Zopidem	W,B,S	N	Y
2014	Zotepine	W,B,S	N	Y
2015	Zoxamide	W,B,S	N	Y
2016	Zuclopenthixol	W,B,S	N	Y

Annex III

Target results of wide-scope screening in surface, sediment and fish samples

Project No 538063

Environmental Institute, s.r.o., Okružná 784/42, 972 41 Koš, Slovakia

July 2019

Summary table of target compounds determined in surface water samples; <LOQ means that the substance was detected above its LOD but could not be quantified

Classification	Analytes	River water 1	River water 2	River water 3	River water 4	River water 5	River water 6	River water 7	River water 8	River water 9	River water 10	River water 11	River water 12	River water 13	LOD	LOQ	PNEC
		C (ng/L)	C (ng/L)	C (ng/L)	C (ng/L)	C (ng/L)	C (ng/L)	C (ng/L)	C (ng/L)	C (ng/L)	C (ng/L)	C (ng/L)	C (ng/L)	C (ng/L)	C (ng/L)		
Pesticides	Acetamidrid	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	3.18	9.54	500
Pesticides	Imidacloprid	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	107	46.6	<LOD	14.6	43.8	209
Pesticides	Thiacloprid	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	7.20	<LOD	<LOD	1.80	5.40	100
Pesticides	Acetochlor	<LOD	<LOD	<LOD	238	<LOD	<LOD	<LOD	<LOD	124	<LOD	<LOD	143	<LOD	28.6	85.8	13
Pesticides	Aminobenzimidazole (2-)	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	311	<LOD	<LOD	5.39	16.17	2310
Pesticides	Atrazine	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	55.2	<LOD	7.82	23.5	600
Pesticides TPs	Atrazine-2-hydroxy	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	17.8	<LOD	2.69	8.07	1e4
Pesticides	Azoxystrobin	<LOD	8.65	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	11.9	<LOD	7.30	<LOD	0.344	1.03	200
Pesticides TPs	Azoxystrobin acid	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.77	<LOD	<LOD	<LOD	0.530	1.59	
Pesticides	Bentazone	<LOD	<LOD	<LOQ	<LOQ	<LOQ	<LOD	<LOD	<LOD	<LOQ	<LOQ	41.0	<LOQ	<LOD	5.12	15.4	100
Pesticides	Carbaryl	<LOD	149	<LOD	162	<LOD	<LOD	<LOD	<LOD	5601	66.2	<LOD	1353	<LOD	55.8	167	230
Pesticides	Carbendazim	<LOD	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOD	<LOD	<LOQ	<LOD	755	30.0	<LOQ	7.10	21.3	150
Pesticides TPs	Chloridazone-methyl-desphenyl	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.40	<LOD	<LOD	<LOD	0.162	0.486	
Pesticides	Cyprodinil	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	1.29	3.88	26
Pesticides	DEET (Diethyltoluamide)	<LOQ	4.05	2.27	2.86	3.25	<LOQ	345	12.4	<LOQ	2.98	91.4	5.93	2.34	0.743	2.23	88e3
Pesticides	Dimethenamide	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	31.9	<LOD	<LOD	1198	<LOD	0.848	2.54	130
Pesticides	Dimethoate	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	85.2	<LOQ	<LOD	9.13	27.4	70
Pesticides	Dimoxystrobin	<LOD	1.97	<LOD	<LOD	<LOD	<LOD	1.64	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.347	1.04	
Pesticides	Dinoterb	<LOD	<LOQ	<LOQ	<LOQ	<LOQ	<LOD	<LOD	<LOD	<LOD	<LOD	3.8	<LOQ	<LOQ	0.870	2.61	30
Pesticides	Diuron	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1197	<LOD	<LOD	10.9	32.7	200
Pesticides	Fipronil	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	3.00	<LOD	<LOD	0.818	2.45	0.77
Pesticides	Fludioxonil	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	6.9	<LOD	<LOD	0.935	2.80	500
Pesticides	Lenacil	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	3.08	9.24	950
Pesticides	Metalaxyl	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	15.3	16.0	<LOD	4.16	12.5	



Pesticides	Metamitron	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	2.66	7.98	
Pesticides TPs	Metamitron-desamino	<LOD	<LOQ	<LOD	6.32	5.36	<LOD	<LOD	<LOD	12.5	<LOD	<LOD	48.3	<LOD	1.79	5.36	
Pesticides	Metazachlor	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	28.5	<LOD	<LOD	<LOD	5.70	17.1	20
Pesticides	Metolachlor	14.6	160	146	131	72.3	17.6	35.5	<LOD	4612	33.1	13.6	720	43.2	3.41	10.2	200
Pesticides TPs	Metolachlor-ESA	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	143	331	<LOD	<LOD	<LOD	10.7	32.1	
Pesticides TPs	Metolachlor-morpholinon	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	29.8	<LOD	<LOD	<LOD	<LOD	3.57	10.7	
Pesticides	Metribuzin	<LOD	7.77	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.23	3.68	58
Pesticides	Nicosulfuron	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	15.0	<LOD	<LOD	32.5	<LOD	2.24	6.73	9
Pesticides	Omethoate	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	43.2	<LOQ	<LOD	3.60	10.8	4
Pesticides	Picaridin (Icaridin)	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	59.1	<LOD	<LOD	16.1	48.4	5e6
Pesticides	Prometryn	<LOD	61.9	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	15.5	46.4	500
Pesticides TPs	Propazine-2-hydroxy (Prometon-Hydroxy)	<LOD	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOD	608	<LOD	<LOQ	52.9	<LOD	17.5	52.6	70
Pesticides	Pyrimethanil	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	56.9	<LOD	<LOD	6.57	19.7	1500
Pesticides	Simazine	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	70.4	<LOD	<LOD	210	<LOD	19.2	57.6	1000
Pesticides TPs	Simazine-2-hydroxy	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	95.2	<LOD	19.2	57.6	
Pesticides	Tebuconazole	<LOD	11.2	<LOD	<LOQ	<LOD	<LOD	3.30	<LOD	4.08	8.67	<LOD	10.1	<LOD	0.482	1.45	240
Pesticides	Terbuthylazine	<LOD	33.7	32.5	66.0	13.3	<LOQ	<LOQ	<LOD	2514	<LOQ	<LOD	83.3	12.9	4.00	12.0	60
Pesticides TPs	Terbuthylazine-desethyl	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	280	<LOD	<LOD	28.5	<LOD	4.20	12.6	250
Pesticides TPs	Terbuthylazine-desethyl-2-hydroxy	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	17.1	<LOD	<LOD	<LOD	<LOD	2.57	7.71	
Pesticides	Thiamethoxam	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	174	<LOD	145	51.9	<LOD	16.1	48.3	2960
Pharmaceuticals TPs	Amisulpride-N-Oxide	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	165	<LOD	<LOD	11.2	33.7	8430
Pharmaceuticals TPs	Antipyrine- 4-Acetamido	<LOD	<LOQ	63.4	56.3	75.4	53.6	26.4	974	49.1	<LOD	1611	113	46.4	6.34	19.0	
Pharmaceuticals TPs	Antipyrine- 4-Formylamino	<LOD	<LOD	36.3	36.6	46.6	47.4	21.3	348	32.4	<LOD	915	230	27.5	4.54	13.6	
Pharmaceuticals	Atenolol	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	32.7	<LOD	<LOD	<LOD	<LOD	<LOD	2.65	7.96	15e4
Pharmaceuticals	Carbamazepine	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	49.4	<LOD	<LOD	1981	74.3	<LOD	4.59	13.8	50
Pharmaceuticals TPs	Carbamazepine-10.11-dihydro-10.11 dihydroxy	<LOD	<LOD	<LOD	<LOD	26.0	23.5	<LOQ	218	<LOD	<LOD	2858	190	<LOD	4.59	13.8	
Pharmaceuticals TPs	Carbamazepine-10.11-epoxide	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	19.9	<LOD	<LOD	307	<LOD	<LOD	4.59	13.8	



Pharmaceuticals TPs	Oxcarbazepine	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	18.1	<LOD	<LOD	3.20	9.60	2.95e 3
Pharmaceuticals	Chloramphenicol	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	75.9	<LOD	<LOD	<LOQ	<LOD	<LOD	6.43	19.3	
Pharmaceuticals	Climbazole	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	178	<LOD	<LOD	2.78	8.33	520
Pharmaceuticals	Diphenhydramine	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	147	<LOD	<LOD	5.51	16.5	990
Pharmaceuticals	Esmolol	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	81.2	<LOD	<LOD	20.3	60.9	5900
Pharmaceuticals	Fluconazole	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	110	<LOD	<LOD	3390	<LOQ	<LOD	61.3	184	1040
Pharmaceuticals	Griseofulvin	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	5.2	19.2	<LOD	1.73	5.18	
Pharmaceuticals	Hydrochlorothiazide	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	186	<LOD	<LOD	<LOD	<LOD	<LOD	1.47	4.42	8.38e 3
Pharmaceuticals	Ibuprofen	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	155	<LOD	<LOD	51.5	155	
Pharmaceuticals	Ketoprofen	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	27.6	82.9	
Pharmaceuticals	Mefenamic acid	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	257	<LOD	<LOD	<LOD	<LOD	<LOD	10.7	32.2	
Pharmaceuticals	Naproxen	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	52.2	157	
Pharmaceuticals	Lamotrigine	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	189	<LOD	<LOD	16.2	48.5	1e4
Pharmaceuticals TPs	Lidocaine-N-oxide	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	13.6	106	<LOD	<LOD	7708	<LOD	<LOD	0.701	2.10	
Pharmaceuticals	Lopinavir	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	76.6	<LOQ	<LOD	1.68	5.03	
Pharmaceuticals	Losartan	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	296	<LOD	<LOD	9.55	28.6	78e3
Pharmaceuticals	Meperidine	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	212	<LOD	<LOD	48.9	147	19.7e 3
Pharmaceuticals	Metformin	<LOD	<LOD	13.3	13.1	14.7	<LOD	27.6	779	<LOD	<LOD	1103	<LOD	<LOD	2.47	7.40	156e 3
Pharmaceuticals	Oxycodone	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	23.0	<LOD	<LOD	4.61	13.8	
Pharmaceuticals	Paracetamol	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	48.7	<LOD	<LOD	<LOD	<LOD	<LOD	14.6	43.9	
Pharmaceuticals	Pentoxifylline	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	33.4	<LOD	<LOD	3.13	9.40	
Pharmaceuticals	Phenazone	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	19.6	13.7	<LOD	4.21	12.6	
Pharmaceuticals TPs	Pheniramine N-Oxide	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	40.5	<LOD	<LOD	5.07	15.2	
Pharmaceuticals	Salicylamide	232	<LOQ	164	112	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	16.9	50.8	
Pharmaceuticals	Salicylic acid	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	28.2	<LOQ	26.4	<LOQ	<LOQ	102	24.9	<LOQ	4.45	13.4	
Pharmaceuticals	Sulfamethoxazole	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1229	97.0	<LOD	0.529	1.59	600
Pharmaceuticals	Sulfapyridine	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	83.2	<LOD	<LOD	6.93	20.8	
Pharmaceuticals	Telmisartan	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	99.3	<LOD	<LOD	105	<LOD	<LOD	15.0	44.9	0.55



Pharmaceuticals TPs	Tramadol-N-oxide	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1536	<LOD	<LOD	19.0	56.9	
Pharmaceuticals	Triclosan	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	31.9	<LOD	<LOD	159	<LOD	<LOD	12.5	37.5	20
Pharmaceuticals	Trimethoprim	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	4.52	<LOD	<LOD	55.9	<LOD	<LOD	1.00	3.01	12e4
Pharmaceuticals	Valsartan	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	197	<LOD	<LOD	810	<LOD	<LOD	17.9	53.6	56e4
Pharmaceuticals TPs	Venlafaxine-N-oxide	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	335	<LOD	<LOD	0.497	1.49	
Illicit drugs	Ephedrine-Nor (Cathin. Phenylpropanolamine)	<LOD	<LOD	95.0	<LOQ	131	<LOD	51.5	443	<LOD	<LOD	2633	487	46.3	0.220	0.66	7e4
Illicit drugs	Barbital	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	7.50	22.5	
Illicit drugs	Barbital-Pheno	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOQ	<LOD	<LOD	7.50	22.5	
Illicit drugs	Barbital-Seco	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	7.50	22.5	
Stimulants	Cotinine	<LOD	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	25.5	<LOQ	<LOD	<LOD	4.7	<LOQ	1.25	3.76	1e4
Stimulants TPs	Cotinine-Hydroxy	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	34.5	<LOD	<LOD	<LOD	<LOD	<LOD	3.23	9.70	
Stimulants	Caffeine	<LOD	<LOQ	120	80.1	95.8	<LOQ	121	2984	87.2	<LOQ	<LOD	<LOD	<LOQ	24.1	72.4	1200
Stimulants	Theobromine	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	83.8	<LOD	<LOD	<LOD	<LOD	<LOD	25.1	75.4	1e5
Sweeteners	Acesulfame	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	133	<LOD	<LOD	30.7	92.0	67.6e3
Sweeteners	Saccharine	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	<LOD	<LOD	<LOD	<LOD	<LOD	15.0	44.9	
Sweeteners	Sucralose	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	2243	<LOD	<LOD	0.177	0.530	29.7e3
Industrial chemicals	Benzoic acid	<LOD	<LOD	<LOD	<LOD	<LOD	27.7	<LOD	<LOD	<LOD	<LOD	183	<LOD	<LOD	1.22	3.67	
Industrial chemicals	Benzothiazole- 2-Amino	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	19.5	<LOD	<LOD	4.19	12.6	
Industrial chemicals	Benzothiazole -2-OH	<LOD	<LOD	<LOD	<LOD	44.5	<LOD	<LOD	<LOD	<LOD	<LOD	257	<LOD	<LOD	4.19	12.6	
Industrial chemicals	Benzotriazole (BTR)	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOQ	48.8	<LOD	<LOD	707	<LOQ	<LOD	15.2	45.5	7.77e3
Industrial chemicals	Tolytriazole	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	51.0	<LOD	<LOD	1079	<LOD	<LOD	14.1	42.2	8e3
Industrial chemicals	Bisphenol A	49.3	<LOD	82.4	20.2	23.1	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	6.16	18.5	240
Industrial chemicals	Didecyldimethylammonium (DADMAC (C10:C10))	<LOQ	<LOD	<LOD	<LOD	<LOQ	<LOD	12.0	37.4	<LOD	<LOD	<LOD	<LOD	<LOD	2.00	6.01	
Industrial chemicals	Dinitrophenol-2-4- (DNP)	<LOD	<LOD	31.1	25.1	25.8	<LOQ	<LOD	<LOD	<LOQ	<LOD	22.0	27.6	22.0	7.35	22.0	4e3
Industrial chemicals	Phosphate-triethyl	<LOD	<LOD	<LOD	<LOQ	<LOQ	<LOD	<LOQ	<LOD	<LOD	<LOD	35.6	<LOD	<LOD	4.11	12.3	



Industrial chemicals	Phthalate-Diethyl	<LOQ	<LOQ	<LOQ	<LOQ	18.6	<LOQ	<LOD	29.5	<LOD	<LOD	<LOD	<LOD	13.6	1.23	3.69	
Industrial chemicals	Phthalate-Dimethyl	12.3	15.6	9.89	<LOQ	8.58	<LOQ	22.4	18.1	8.56	13.2	<LOD	9.91	9.13	2.85	8.56	
Naturally occurring compounds	Adenine	34.9	51.1	29.9	<LOD	53.1	229	68.7	779	42.9	35.8	375	164	59.5	3.62	10.9	
Naturally occurring compounds	Adenosine	74.4	251	72.1	99.7	176	1136	250	2340	150	134	298	863	130	3.07	9.20	

- PNEC values were obtained from the NORMAN Ecotoxicology Database

Summary table of target compounds determined in sediment samples; <LOQ means that the substance was detected above its LOD but could not be quantified

Classification	Analytes	Sediment st. 2	Sediment st. 5	Sediment st. 12	Sediment st. 6	LOD	LOQ	PNEC
		C (µg/kg) d.w.	C (µg/kg) d.w.	C (µg/kg) d.w.	C (µg/kg) d.w.	C (µg/kg) d.w.		
Pesticides	Azoxystrobin	12.0	<LOD	<LOD	<LOD	2.12	6.35	11.5
Pesticides	Carbendazim	141	<LOD	<LOD	<LOD	12.4	37.2	1.9
Pesticides	Prometryn	3.63	<LOD	<LOD	<LOD	0.404	1.21	18.3
Pharmaceuticals	Carbamazepine	<LOD	<LOD	<LOQ	<LOD	0.769	2.31	1.7
Pharmaceuticals	Mabuterol	0.893	0.693	<LOD	<LOD	0.206	0.618	
Pharmaceuticals	Salicylamide	<LOQ	<LOD	<LOD	<LOD	9.51	28.5	
Naturally occurring compounds	Adenine	454	328	1146	2474	11.4	34.2	
Naturally occurring compounds	Adenosine	141	<LOD	825	281	3.20	9.60	
Naturally occurring compounds	2-Phenethylamine	196	128	395	405	8.90	26.7	
Naturally occurring compounds	Tyramine	<LOD	<LOD	<LOD	<LOQ	10.2	30.7	



Summary table of target compounds determined in fish samples; <LOQ means that the substance was detected above its LOD but could not be quantified

Classification	Analytes	Biota st. 5	Biota st. 12	Biota st. 6	LOD	LOQ
		C (µg/kg) w.w.	C (µg/kg) w.w.	C (µg/kg) w.w.	C (µg/kg) w.w.	C (µg/kg) w.w.
Pesticides TPs	Carbofuran-3-hydroxy	21.0	53.3	31.2	6.31	18.9
Pharmaceuticals	Tolycaine	<LOD	70.0	<LOD	6.17	18.5



Annex IV

TERMS OF REFERENCE

Research on identification of chemical status of surface water bodies of the Dniester river basin

Project No 538063

Environmental Institute, s.r.o., Okružná 784/42, 972 41 Koš, Slovakia

July 2019



TERMS OF REFERENCE

Research on identification of chemical status of surface water bodies of the Dniester river basin

BACKGROUND AND JUSTIFICATION

Moldovan-Ukrainian project “Enabling transboundary cooperation and integrated water resources management in the Dniester River Basin” is based on results and recommendations of a series of projects on the Dniester river basin implemented in the frame of the Environment and Security Initiative (ENVSEC) with guidance from the UN Economic Commission for Europe (UNECE), Organization for Security and Co-operation in Europe (OSCE), UN Environment Programme (UNEP) and UN Development Programme (UNDP).

The overall goal of the GEF project “Enabling transboundary cooperation and integrated water resources management in the Dniester River Basin” is “Integrated water resources management in the Dniester river basin to strengthen sustainable development, through the update of the TDA, development and endorsement of the SAP and initiation of its implementation”.

One of the main activities of the project is Improving Environmental Monitoring Mechanisms for Dniester River Basin.

Project activities cover chemical screening to determine a full list of pollutants in the Dniester river basin and for development of monitoring programs for its surface waters.

For chemical screening of the water bodies of the Dniester river basin the OSCE PCU is looking for qualified contractors to complete assignments within this Terms of Reference.

OBJECTIVES OF THE ASSIGNMENT

To conduct chemical analysis by identifying concentrations of priority pollutants of the surface water bodies of the Dniester river basin and identifying river-specific pollutants. Results will be used for the development of a diagnostic monitoring program for surface waters of the Dniester river basin.

SCOPE OF WORK

Services must include:

1. Samples collection in accordance with suggested Implementation plan.
 - Surface water samples;
 - Biota samples;
 - Sediments samples.



Sample collection sites and preconditions for the sample collection are outlined in Annex 1.

The Contractor is responsible for the collection of samples. Designated experts from the Project will accompany the Contractor and consult the Contractor on the precise location of sample collection sites during collection of the of surface water, biota and sediments samples.

2. Storage and transportation of samples for its analysis.
3. Carrying out all necessary instrumental and laboratory measurements according to below tasks:
 - Analyse the content of specific pollutants in surface water (Annex 2), biota and sediments samples. The screening should cover not less than 4000 pollutants.
 - Analyse surface water and sediments samples to determine concentrations of individual metals - in line with the Annex 1;
 - Water analysis for metal concentrations identification must be made in dissolved and suspended fractions (standard filter 0.45 µm).
4. Preparation of the report based on analysis results. It must be submitted to the OSCE PCU not later than by *10 June 2019*.

Safety during field research, transportation, storage and analysis of samples must comply with Contractor's safety instructions.

The OSCE PCU is neither responsible for providing access nor safety at sample collection sites.

The OSCE PCU reserves the right to invite journalists to the sample collection sites to shoot the sampling process. All modalities with journalist involvement will be negotiated with the Contractor individually.

REPORTING AND TIME SCHEDULE

All activities need to be completed within 45 calendar days after signing the Purchase Order but not later than **10 June 2019**.

Sample collection should be completed according to the proposed implementation plan, but not later than **25th of May**.

Upon the completion of all tasks the Contactor needs to provide:

- Sample collection and chemical analysis protocols for the further mapping of the outcome.
- Final report describing the research methodology and analysis of the results of certain parts of the work performed:

For surface waters:

- Analysis of chemical status of surface waters based on the identification of priority pollutants concentrations;



- A list and concentrations of specific synthetic pollutants for surface waters, biota and sediments of the river basin based on the results of targeted screening;
- Analysis of metal concentrations in water and sediments.

The concluding part of the final report must contain recommendations on diagnostic monitoring of the surface water bodies of Dniester river basin based on defined chemical status of the surface waters.

The report should be submitted in English or Ukrainian languages not later than **10 June 2019** in e-version.

REQUIREMENTS TO THE QUOTATION TO BE SUBMITTED BY THE BIDDER

Together with the quotation a Bidder must submit:

- Descriptive summary of company's professional capacity and previous experience containing list of services relevant to the subject of this solicitation that were provided to other clients. Information should be provided in the following format: year/customer/description of the service;
- Information about proposed personnel: CVs of key personnel, including their job titles and scope of responsibilities;
- Implementation plan for provision of services in accordance with the Terms of Reference and Annex 1. Implementation plan must contain:
 - Performance schedule based on activities described in Section "Scope of work" and timelines specified in ToR;
 - Detailed description of approaches and methodologies to conduct activities envisaged in ToR;
 - Description of technical and material (instrumental) resources which will be used;
 - Means of transportation and storage of collected samples.
- Accreditation and/or compliance certificate issued by authorized authority in due course to prove ability to perform aforementioned activities and chemical testing of listed pollutants;
- A list of equipment capable to measure not less than 4 000 pollutants that will be identified in the course of targeted screening.

QUALIFICATION OF THE BIDDER

The successful Bidder shall have:

- Relevant experience in provision of similar services (not less than three years) of high standard, including capability to provide the full range of services described above;
- Trained and highly qualified staff with not less than three years of experience in chemical analysis field and environmental monitoring;
- Documentary, technical and material means required for provision of high quality services within identified deadlines, certified laboratory and certified equipment as well as officially-approved methods for sample analysis.



Each and all aspects of Services have to comply with offered Implementation Plan submitted within quotation.

Number of staff members needed to deliver requested services is at the Bidder's discretion.



EVALUATION METHODOLOGY

The applied selection method is Least-Cost Selection.

As a general rule, only quotations that are technically acceptable and that provide all the necessary evidence required in the RFQ documents will be considered for financial evaluation.

The quotations will be evaluated according to the following criteria, not necessarily listed in order of priority:

- a) Demonstrated ability and willingness to meet RFQ requirements.
- b) Demonstrated financial and professional capability for executing the contract (incl. Bidder's experience in provision of services of similar nature and scale; qualification of proposed personnel);
- c) Demonstrated understanding of the OSCE's need for quality services.
- d) Availability of documentary, material and technical resources for services' provision;
- e) Detailed implementation plan and methodology demonstrating the capability to provide the required services.
- f) Responsiveness to the Terms of Reference.
- g) Cost comparison between compliant quotations. From among all technical acceptable quotations, the award will be made to the lowest cost Bidder.

Technical evaluation will proceed by using "point" system according to the following evaluation criteria and points not necessarily listed in order priority:

- 1) Demonstrated financial and professional capability for executing the contract (including previous experience in provision of similar services; qualification and experience of proposed key personnel) – **maximum 35 points:**
 - Company's profile, incl. respective experience in provision of services of similar nature and scale – **maximum 25 points;**
 - Relevant qualification and competence of the proposed key personnel – **maximum 10 points;**
- 2) Demonstrated documentary, material and technical capability for provision of requested services (suggested list of pollutants for screening, accredited laboratories, material resources etc.) – **maximum 30 points;**
- 3) Responsiveness of the proposed Implementation Plan to the requirements of the Terms of Reference – **maximum 35 points.**

Total: 100 points

Minimum technical score (points) required to pass technical evaluation: 80 points

A quotation shall be rejected at this stage if it does not respond to important aspects of the RFQ, particularly the Terms of Reference, or if the quotation fails to achieve the minimum technical score indicated above. Only the quotations that pass the minimum technical score (80 points) will be further evaluated.



COMMUNICATION METHODS

The Contractor is responsible for designating an employee for communication on all stages of research with the Requestor. All changes, amendments or deviations from the approved plan and schedule require re-approval from the OSCE PCU representative responsible for co-ordination of the research.

Sample Collection Sites and List of Common Characteristics for the Analysis

Sites for surface water status analysis														
Parameters	1	2	3	4	5	6	7	8	9	10	11	12	13	Total
Screening to determine the list of pollutants specific to the Dniester river basin														
- water:	+	+	+	+	+	+	+	+	+	+	+	+	+	13
- biota:		+			+	+						+		4
- sediments:		+			+	+						+		4
Analysis of metal concentrations														
- water (Cu, Zn, Cr, As, Hg):	+	+	+	+	+	+	+	+	+	+	+	+	+	13
- sediments (Pb, Cu, Zn, Cd, Cr, Ni, As, Hg):	+	+	+	+	+	+	+	+	+	+	+	+	+	13

Sites for surface water status analysis:
1– Dniester – headwaters, upstream village Vovche, Ukraine
2 – Dniester – Zalizchyyky, upstream the Dniester reservoir, Ukraine
3 – Dniester – downstream Soroki, Moldova/Ukraine
4 – Dniester – downstream Rybnitsa/Rezya or Dubossary reservoir , Moldova
5 – Dniester – opposite to Chobruchi village below Tiraspol / Bendery, Moldova
6 – Dniester Lyman – near Belgorod-Dniestrovskiy, Ukraine
7 – Bystritsa – downstream Ivano-Frankivsk, Ukraine
8 – Tismenitsa – mouth, Ukraine
9 – Slonitsa – mouth, Ukraine
10 – Seret – mouth, Ukraine
11 – Byk – mouth (downstream Chisinau wastewater outlet), Moldova
12 – Reut – mouth, Moldova
13 – Kuchurgan reservoir – Ukraine/Moldova