



Telef: 232817817
Fax: 232817819

Controlvet Segurança Alimentar S.A.

Zona Industrial de Tondela ZIM II, Lotes 2 e 6 3460-070 Tondela



Relatório nº 11638/2018 Pg 1/1

Data Emissão: 26-01-2018

N.º de Análise: H / 1145 / 18
Data Colheita: 22-01-2018
Data Receção: 23-01-2018
Data Início Ensaio: 23-01-2018
Data Fim Ensaio: 26-01-2018
Código Cliente: 6322

Exmo(s) Sr(s):
Bio3 - Estudos e Proj. em Biol. e Valorizacão
Rua Antero de Quental, 52 A,
Urbanizacão Colinas do Cruzeiro
2675-690 Odivelas

Unidade: Projecto Formosa (Armona)

Identificação da Amostra:

9931 / 18

Produto : Água Natural Salina
Referência : Pre A1
Acondicionamento : Frasco
Observações : Amostra 1 - 3º Campanha
A colheita de amostra não foi efectuada pela Controlvet.

Hora Recolha : 11h25
Nº Entrega : 87/2018

Ensaio	Método	Resultado	Unidade
Contagem de Coliformes	MEH10.02	1	ufc/100mL
Contagem de Escherichia coli	MEH10.02	1	ufc/100mL
Contagem de Enterococos	ISO 7899-2:2000	2	ufc/100mL

Lista de abreviaturas: NE- Número estimado; UFC- Unidades formadoras de colónias; LQ – Limite de quantificação; LD – limite de detecção; V.L. – Valor Limite; V.R. – Valor Recomendado; VP - Valor Paramétrico; C - Conforme; A - Aceitável; NC - Não Conforme; Unid. - Unidade; DO - Densidade óptica.

O ensaio assinalado com (s) foi subcontratado e não é acreditado.

O ensaio assinalado com (a) foi subcontratado e é acreditado.

Nos resultados assinalados com (y) os microrganismos estão presentes, mas inferiores a 4xdiluição.

Para os ensaios assinalados por técnicas de cálculo a metodologia seguida pode ser disponibilizada a pedido.

Este Relatório de Ensaio refere-se apenas às amostras analisadas.

Proibida a reprodução parcial deste documento.

Os ensaios assinalados com * não estão incluídos no âmbito da acreditação.

A colheita de amostra efectuada não está incluída no âmbito da acreditação.

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Elisa Maia

Técnica Superior Laboratório
Elisa Maia



Telef: 232817817

Fax: 232817819

Controlvet Segurança Alimentar S.A.

Zona Industrial de Tondela ZIM II, Lotes 2 e 6 3460-070 Tondela

Relatório nº 24263/2018 Pg 1/1

Data Emissão: 12-02-2018

N.º de Análise: QH / 834 / 18
Data Colheita: 22-01-2018
Data Receção: 23-01-2018
Data Início Ensaio: 23-01-2018
Data Fim Ensaio: 12-02-2018
Código Cliente: 6322

Exmo(s) Sr(s):

Bio3 - Estudos e Proj. em Biol. e Valorizacão
Rua Antero de Quental, 52 A,
Urbanizacão Colinas do Cruzeiro
2675-690 Odivelas

Unidade: Projecto Formosa (Armona)

Identificação da Amostra:

9931 / 18

Produto : Água Natural Salina

Referência : Pre A1

Acondicionamento : Frasco

Observações : Amostra 1 - 3º Campanha

A colheita de amostra não foi efectuada pela Controlvet.

Hora Recolha : 11h25

Nº Entrega : 87/2018

Ensaio	Método	Resultado	Unidade
(a) Parâmetros físico-químicos	Descrição em anexo	Resultado em anexo.	.

Método interno equivalente é aquele que tem a mesma área de aplicação (parâmetros e matrizes) e que cumpre as características de desempenho, obtendo resultados comparáveis ao(s) método(s) normalizado(s) junto indicado(s)

Lista de abreviaturas: NE- Número estimado; UFC- Unidades formadoras de colónias; LQ – Limite de quantificação; LD – limite de detecção; V.L. – Valor Limite; V.R. – Valor Recomendado; VP - Valor Paramétrico; C - Conforme; A - Aceitável; NC - Não Conforme; Unid. - Unidade; DO - Densidade óptica.

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Para os ensaios assinalados por técnicas de cálculo a metodologia seguida pode ser disponibilizada a pedido.

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Eugénia Silva

Técnica Superior de Laboratório
Eugénia Silva



CERTIFICATE OF ANALYSIS

Laboratory sample ID	: PR1806046001	Work Order	: PR1806046
		Issue Date	: 09-Feb-2018
Customer	: CONTROLVET - Seguranca Alimentar, S. A.	Laboratory	: ALS Czech Republic, s.r.o.
Contact	: Ms. Catarina Rodrigues	Contact	: Client Service
Address	: Zona Industrial de Tondela ZIM II - Lote 6 3460-070 Tondela Portugal	Address	: Na Harfe 336/9 Prague 9 - Vysocany 190 00 Czech Republic
E-mail	: catarinarodrigues.laboratorio@controlvet.pt	E-mail	: customer.support@alsglobal.com
Telephone	: ----	Telephone	: +420 226 226 228
Facsimile	: ----	Facsimile	: +420 284 081 635
Project	: ECF 2017/4656	Page	: 1 of 5
Order number	: ----	Date Samples Received	: 24-Jan-2018
C-O-C number	: ----	Quote number	: PR2015CONSE-PT0006 (PT-254-15-0938)
Site	: ----	Date of test	: 24-Jan-2018 - 09-Feb-2018
Sampled by	: client	QC Level	: ALS CR Standard Quality Control Schedule

General Comments

This report shall not be reproduced except in full, without prior written approval from the laboratory.

The laboratory declares that the test results relate only to the listed samples.

Sample(s) PR1806046/1 - 4, method W-METMSFLL- LOR for particular sample(s) raised due to matrix interference.

Samples PR1806046/1-4, method W-STELMS01 LOR was increased due to dilution.

Should a sample contain sediment it is decanted prior to volatile compounds determination.

Signatories

Testing Laboratory No. 1163
Accredited by CAI according to
CSN EN ISO/IEC 17025:2005

Signatories
Zdeněk Jiráček

Position
Environmental Business Unit
Manager





Analytical Results

Sub-Matrix: SALINE WATER

Laboratory sample ID

Client sampling date / time

QH/834/2018

[23-Jan-2018]

Parameter	Method	LOR	Unit	Result	MU
Estrogenic Hormones					
17-Alpha-Ethinylestradiol	W-STELMS01	0.050	µg/L	<0.500	----
17-Beta-Estradiol	W-STELMS01	0.050	µg/L	<0.500	----
Pharmaceutical Compounds					
Diclofenac	W-PESLMS04	0.040	µg/L	<0.040	----
Ibuprofen	W-PESLMS04	0.050	µg/L	<0.050	----
Dissolved Metals / Major Cations					
Cadmium	W-METMSFLL1	0.020	µg/L	<0.400	----
Lead	W-METMSFLL1	0.050	µg/L	<1.00	----
Mercury	W-HG-AFSFL	0.010	µg/L	<0.010	----
Nickel	W-METMSFLL1	0.200	µg/L	<4.00	----
BTEX					
Benzene	W-VOCGMS01	0.20	µg/L	<0.20	----
Toluene	W-VOCGMS01	1.00	µg/L	<1.00	----
Ethylbenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
meta- & para-Xylene	W-VOCGMS01	0.20	µg/L	<0.20	----
ortho-Xylene	W-VOCGMS01	0.10	µg/L	<0.10	----
Sum of BTEX	W-VOCGMS01	1.60	µg/L	<1.60	----
Sum of xylenes	W-VOCGMS01	0.30	µg/L	<0.30	----
Sum of TEX	W-VOCGMS01	1.40	µg/L	<1.40	----
Halogenated Volatile Organic Compounds					
Vinyl chloride	W-VOCGMS01	1.00	µg/L	<1.00	----
trans-1,2-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
Dichloromethane	W-VOCGMS01	6.0	µg/L	<6.0	----
1,1-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
cis-1,2-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,1-Dichloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Chloroform	W-VOCGMS01	0.30	µg/L	<0.30	----
1,2-Dichloroethane	W-VOCGMS01	1.00	µg/L	<1.00	----
1,1,1-Trichloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Tetrachloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Bromodichloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Trichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,1,2-Trichloroethane	W-VOCGMS01	0.20	µg/L	<0.20	----
Dibromochloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Tetrachloroethene	W-VOCGMS01	0.20	µg/L	<0.20	----
1,1,1,2-Tetrachloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Chlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
Bromoform	W-VOCGMS01	0.20	µg/L	<0.20	----
1,1,2,2-Tetrachloroethane	W-VOCGMS01	1.00	µg/L	<1.00	----
1,2-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,4-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,3-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----



1.2.4-Trichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1.2.3-Trichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1.3.5-Trichlorobenzene	W-VOCGMS01	0.20	µg/L	<0.20	----
1.2-Dichloropropane	W-VOCGMS01	1.0	µg/L	<1.0	----
Sum of 4 Trihalomethanes	W-VOCGMS01	0.70	µg/L	<0.70	----
Sum of 3 Dichlorobenzenes	W-VOCGMS01	0.30	µg/L	<0.30	----
Sum of 3 Trichlorobenzenes	W-VOCGMS01	0.40	µg/L	<0.40	----
Sum of 5 Chlorinated Ethenes	W-VOCGMS01	0.60	µg/L	<0.60	----
Non-Halogenated Volatile Organic Compounds					
Styrene	W-VOCGMS01	0.20	µg/L	<0.20	----
Methyl tert-Butyl Ether (MTBE)	W-VOCGMS01	0.20	µg/L	<0.20	----
tert-Butyl alcohol	W-VOCGMS01	5.0	µg/L	<5.0	----
Sum of BTEXS	W-VOCGMS01	1.80	µg/L	<1.80	----
Polycyclic Aromatics Hydrocarbons (PAHs)					
Naphthalene	W-PAHGMS04	0.0070	µg/L	<0.0070	----
Anthracene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(b)fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(k)fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(a)pyrene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Indeno(1.2.3.cd)pyrene	W-PAHGMS04	0.00030	µg/L	<0.00030	----
Benzo(g,h,i)perylene	W-PAHGMS04	0.00030	µg/L	<0.00030	----
Sum of Benzo(b)fluoranthene@Benzo(k)fluoranthene	W-PAHGMS04	0.0020	µg/L	<0.0020	----
Sum of Indeno(1.2.3.cd)pyrene@Benzo(g,h,i)perylene	W-PAHGMS04	0.00060	µg/L	<0.00060	----
Sum of 8 PAH (WFD)	W-PAHGMS04	0.0126	µg/L	<0.0126	----
PCBs					
PCB 28	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 52	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 101	W-PCBECD01	0.000750	µg/L	<0.000750	----
PCB 118	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 138	W-PCBECD01	0.00120	µg/L	<0.00120	----
PCB 153	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 180	W-PCBECD01	0.000950	µg/L	<0.000950	----
Sum of 6 PCBs	W-PCBECD01	0.00620	µg/L	<0.00620	----
Sum of 7 PCBs	W-PCBECD01	0.00730	µg/L	<0.00730	----
Organochlorine Pesticides					
Hexachlorobutadiene	W-OCPECD02	0.010	µg/L	<0.010	----
Pentachlorobenzene	W-OCPECD02	0.0020	µg/L	<0.0020	----
Trifluralin	W-OCPECD02	0.0050	µg/L	<0.0050	----
Hexachlorocyclohexane Alpha	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorobenzene (HCB)	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Beta	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Gamma	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Delta	W-OCPECD02	0.0020	µg/L	<0.0020	----
Alachlor	W-OCPECD02	0.0050	µg/L	<0.0050	----



Aldrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
Isodrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
alpha-Endosulfan	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDE	W-OCPECD02	0.0020	µg/L	<0.0020	----
Dieldrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
Endrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
beta-Endosulfan	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDD	W-OCPECD02	0.0020	µg/L	<0.0020	----
2.4-DDT	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDT	W-OCPECD02	0.0020	µg/L	<0.0020	----
Sum of 4 hexachlorcyclohexanes	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of 4 isomers DDT	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of 4 cyclodienes	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of endosulfanes	W-OCPECD02	0.0040	µg/L	<0.0040	----
Chlorophenols					
Pentachlorophenol	W-CLPGMS02	0.10	µg/L	<0.10	----
Alkylphenols					
4-Nonylphenol	W-AEOGMS01	0.050	µg/L	<0.050	----
4-t-Octylphenol	W-AEOGMS01	0.010	µg/L	<0.010	----
Phthalates					
Bis(2-ethylhexyl)phthalate (DEHP)	W-PTHGMS02	1.0	µg/L	<1.0	----
Organometallic Compounds					
Tributyltin	W-TSN-GAE	1	ng/L	<1	----

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, delivery date in brackets without a time component will be displayed instead. Measurement uncertainty is expressed as expanded measurement uncertainty with coverage factor k = 2, representing 95% confidence level.

Key: LOR = Limit of reporting; MU = Measurement Uncertainty

The end of result part of the certificate of analysis



Brief Method Summaries

Analytical Methods	Method Descriptions
<i>Location of test performance: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00</i>	
W-AEOGMS01	CZ_SOP_D06_03_178 (CSN EN ISO 18857-2) Determination of alkylphenols and alkylphenol ethoxylates by gas chromatography method with MS or MS/MS detection and calculation of alkylphenols and alkylphenol ethoxylates sums from measured values
W-CLPGMS02	CZ_SOP_D06_03_158 except chap. 9.3 a 9.4 (US EPA 8041, US EPA 3500, CSN EN 12673) Determination of phenols, chlorinated phenols and cresols by gas chromatography method with detection MS and ECD and calculation of phenols, chlorinated phenols and cresols sums from measured values
W-HG-AFSFL	CZ_SOP_D06_02_096 (US EPA 245.7, CSN EN ISO 178 52, CSN EN 16192, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1 and 10.2.). Determination of Mercury by Fluorescence Spectrometry. Sample was filtered by microfilter with porosity 0.45 µm followed by nitric acid addition prior to analysis.
W-METMSFLL1	CZ_SOP_D06_02_002 (US EPA 200.8, CSN EN ISO 17294-2, US EPA 6020A, CSN EN 16192, CSN 75 7358 samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1 and 10.2) Determination of elements by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values including the calculation of total mineralization and calculating the sum of Ca+Mg. Sample was filtered by microfilter with porosity 0.45 µm followed by nitric acid addition prior to analysis.
W-OCPECD02	CZ_SOP_D06_03_169 (CSN EN ISO 6468, US EPA 8081, DIN 38407-2, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1) Determination of organochlorine pesticides and other halogen compounds by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values
W-PAHGMS04	CZ_SOP_D06_03_161 (US EPA 8270, CSN EN ISO 6468, US EPA 8000D, samples preparation according to CZ_SOP_D06_03_P01 chap. 9.1, 9.4.1) Determination of semi volatile organic compounds by gas chromatography method with MS or MS/MS detection and calculation of semi volatile organic compounds sums from measured values
W-PCBECD01	CZ_SOP_D06_03_166 (DIN 38407, part 2, US EPA 8082, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1) Determination of polychlorinated biphenyls - congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values of polychlorinated biphenyls sums from measured values
W-PESLMS04	CZ_SOP_D06_03_182.A (DIN 38407-35, CEN/TS 15968) Determination of acidic herbicides, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of acidic herbicides, drug residues and other pollutants sums from measured values.
W-PTHGMS02	CZ_SOP_D06_03_159 except chap. 9.2 a 9.3 (US EPA 8061A) Determination of phthalates by gas chromatography method with MS detection and calculation of phthalates sums from measured values
W-STELMS01	CZ_SOP_D06_03_183.A (US EPA 535, US EPA 1694) Determination of pesticides, pesticide metabolites, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticide metabolites, drug residues and other pollutants sums from measured values.
W-TSN-GAE	Determination of Tributyltin by gas chromatography GC-ICP-SFMS according to ISO 17353:2004 [Subcontracted]
W-VOCGMS01	CZ_SOP_D06_03_155 except chap. 10.5, 10.6 (US EPA 624, US EPA 8260, US EPA 8015, EN ISO 10301, MADEP 2004, rev. 1.1, ISO 11423, ISO 15680) Determination of volatile organic compounds by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values

A `` symbol preceding any method indicates laboratory or subcontractor non-accredited test. In the case when a procedure belonging to an accredited method was used for non-accredited matrix, would apply that the reported results are non-accredited. Please refer to General Comment section on front page for information. If the report contains subcontracted analysis, those are made in a subcontracted laboratory outside the laboratories ALS Czech Republic, s.r.o.

The calculation methods of summation parameters are available on request in the client service.



Telef: 232817817
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Controlvet Segurança Alimentar S.A.

Zona Industrial de Tondela ZIM II, Lotes 2 e 6 3460-070 Tondela



Relatório nº 11096/2018 Pg 1/1

Data Emissão: 25-01-2018

N.º de Análise: H / 1146 / 18
Data Colheita: 22-01-2018
Data Receção: 23-01-2018
Data Início Ensaio: 23-01-2018
Data Fim Ensaio: 25-01-2018
Código Cliente: 6322

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Rua Antero de Quental, 52 A,
Urbanizacão Colinas do Cruzeiro
2675-690 Odivelas

Unidade: Projecto Formosa (Armona)

Identificação da Amostra:

9932 / 18

Produto : Água Natural Salina
Referência : Pre A4
Acondicionamento : Frasco
Observações : Amostra 4 - 3º Campanha
A colheita de amostra não foi efectuada pela Controlvet.

Hora Recolha : 11h50
Nº Entrega : 87/2018

Ensaio	Método	Resultado	Unidade
Contagem de Coliformes	MEH10.02	0	ufc/100mL
Contagem de Escherichia coli	MEH10.02	0	ufc/100mL
Contagem de Enterococos	ISO 7899-2:2000	0	ufc/100mL

Lista de abreviaturas: NE- Número estimado; UFC- Unidades formadoras de colónias; LQ – Limite de quantificação; LD – limite de detecção; V.L. – Valor Limite; V.R. – Valor Recomendado; VP - Valor Paramétrico; C - Conforme; A - Aceitável; NC - Não Conforme; Unid. - Unidade; DO - Densidade óptica.

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Mod 201.19 Documento Processado por Computador

Elisa Maia

Técnica Superior Laboratório
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Controlvet Segurança Alimentar S.A.

Zona Industrial de Tondela ZIM II, Lotes 2 e 6 3460-070 Tondela

Relatório nº 24264/2018 Pg 1/1

Data Emissão: 12-02-2018

N.º de Análise: QH / 835 / 18
Data Colheita: 22-01-2018
Data Receção: 23-01-2018
Data Início Ensaio: 23-01-2018
Data Fim Ensaio: 12-02-2018
Código Cliente: 6322

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Bio3 - Estudos e Proj. em Biol. e Valorizacão
Rua Antero de Quental, 52 A,
Urbanizacão Colinas do Cruzeiro
2675-690 Odivelas

Unidade: Projecto Formosa (Armona)

Identificação da Amostra:

9932 / 18

Produto : Água Natural Salina

Referência : Pre A4

Acondicionamento : Frasco

Observações : Amostra 4 - 3º Campanha

A colheita de amostra não foi efectuada pela Controlvet.

Hora Recolha : 11h50

Nº Entrega : 87/2018

Ensaio	Método	Resultado	Unidade
(a) Parâmetros físico-químicos	Descrição em anexo	Resultado em anexo.	.

Método interno equivalente é aquele que tem a mesma área de aplicação (parâmetros e matrizes) e que cumpre as características de desempenho, obtendo resultados comparáveis ao(s) método(s) normalizado(s) junto indicado(s)

Lista de abreviaturas: NE- Número estimado; UFC- Unidades formadoras de colónias; LQ – Limite de quantificação; LD – limite de detecção; V.L. – Valor Limite; V.R. – Valor Recomendado; VP - Valor Paramétrico; C - Conforme; A - Aceitável; NC - Não Conforme; Unid. - Unidade; DO - Densidade óptica.

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Para os ensaios assinalados por técnicas de cálculo a metodologia seguida pode ser disponibilizada a pedido.

Este Relatório de Ensaio refere-se apenas às amostras analisadas.

Proibida a reprodução parcial deste documento.

Eugénia Silva

Técnica Superior de Laboratório
Eugénia Silva



CERTIFICATE OF ANALYSIS

Laboratory sample ID	: PR1806046002	Work Order	: PR1806046
		Issue Date	: 09-Feb-2018
Customer	: CONTROLVET - Seguranca Alimentar, S. A.	Laboratory	: ALS Czech Republic, s.r.o.
Contact	: Ms. Catarina Rodrigues	Contact	: Client Service
Address	: Zona Industrial de Tondela ZIM II - Lote 6 3460-070 Tondela Portugal	Address	: Na Harfe 336/9 Prague 9 - Vysocany 190 00 Czech Republic
E-mail	: catarinarodrigues.laboratorio@controlvet.pt	E-mail	: customer.support@alsglobal.com
Telephone	: ----	Telephone	: +420 226 226 228
Facsimile	: ----	Facsimile	: +420 284 081 635
Project	: ECF 2017/4656	Page	: 1 of 5
Order number	: ----	Date Samples Received	: 24-Jan-2018
C-O-C number	: ----	Quote number	: PR2015CONSE-PT0006 (PT-254-15-0938)
Site	: ----	Date of test	: 24-Jan-2018 - 09-Feb-2018
Sampled by	: client	QC Level	: ALS CR Standard Quality Control Schedule

General Comments

This report shall not be reproduced except in full, without prior written approval from the laboratory.

The laboratory declares that the test results relate only to the listed samples.

Sample(s) PR1806046/1 - 4, method W-METMSFLL- LOR for particular sample(s) raised due to matrix interference.

Samples PR1806046/1-4, method W-STELMS01 LOR was increased due to dilution.

Should a sample contain sediment it is decanted prior to volatile compounds determination.

Signatories

Signatories
Zdeněk Jiráček

Position
Environmental Business Unit
Manager

Testing Laboratory No. 1163
Accredited by CAI according to
CSN EN ISO/IEC 17025:2005





Analytical Results

Sub-Matrix: SALINE WATER

Laboratory sample ID

Client sampling date / time

QH/835/2018

[23-Jan-2018]

Parameter	Method	LOR	Unit	Result	MU
Estrogenic Hormones					
17-Alpha-Ethinylestradiol	W-STELMS01	0.050	µg/L	<0.500	----
17-Beta-Estradiol	W-STELMS01	0.050	µg/L	<0.500	----
Pharmaceutical Compounds					
Diclofenac	W-PESLMS04	0.040	µg/L	<0.040	----
Ibuprofen	W-PESLMS04	0.050	µg/L	<0.050	----
Dissolved Metals / Major Cations					
Cadmium	W-METMSFLL1	0.020	µg/L	<0.400	----
Lead	W-METMSFLL1	0.050	µg/L	<1.00	----
Mercury	W-HG-AFSFL	0.010	µg/L	<0.010	----
Nickel	W-METMSFLL1	0.200	µg/L	<4.00	----
BTEX					
Benzene	W-VOCGMS01	0.20	µg/L	<0.20	----
Toluene	W-VOCGMS01	1.00	µg/L	<1.00	----
Ethylbenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
meta- & para-Xylene	W-VOCGMS01	0.20	µg/L	0.27	± 40.0%
ortho-Xylene	W-VOCGMS01	0.10	µg/L	0.14	± 40.0%
Sum of BTEX	W-VOCGMS01	1.60	µg/L	<1.60	----
Sum of xylenes	W-VOCGMS01	0.30	µg/L	0.41	----
Sum of TEX	W-VOCGMS01	1.40	µg/L	<1.40	----
Halogenated Volatile Organic Compounds					
Vinyl chloride	W-VOCGMS01	1.00	µg/L	<1.00	----
trans-1,2-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
Dichloromethane	W-VOCGMS01	6.0	µg/L	<6.0	----
1,1-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
cis-1,2-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,1-Dichloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Chloroform	W-VOCGMS01	0.30	µg/L	<0.30	----
1,2-Dichloroethane	W-VOCGMS01	1.00	µg/L	<1.00	----
1,1,1-Trichloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Tetrachloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Bromodichloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Trichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,1,2-Trichloroethane	W-VOCGMS01	0.20	µg/L	<0.20	----
Dibromochloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Tetrachloroethene	W-VOCGMS01	0.20	µg/L	<0.20	----
1,1,1,2-Tetrachloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Chlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
Bromoform	W-VOCGMS01	0.20	µg/L	<0.20	----
1,1,2,2-Tetrachloroethane	W-VOCGMS01	1.00	µg/L	<1.00	----
1,2-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,4-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,3-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----



1.2.4-Trichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1.2.3-Trichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1.3.5-Trichlorobenzene	W-VOCGMS01	0.20	µg/L	<0.20	----
1.2-Dichloropropane	W-VOCGMS01	1.0	µg/L	<1.0	----
Sum of 4 Trihalomethanes	W-VOCGMS01	0.70	µg/L	<0.70	----
Sum of 3 Dichlorobenzenes	W-VOCGMS01	0.30	µg/L	<0.30	----
Sum of 3 Trichlorobenzenes	W-VOCGMS01	0.40	µg/L	<0.40	----
Sum of 5 Chlorinated Ethenes	W-VOCGMS01	0.60	µg/L	<0.60	----
Non-Halogenated Volatile Organic Compounds					
Styrene	W-VOCGMS01	0.20	µg/L	<0.20	----
Methyl tert-Butyl Ether (MTBE)	W-VOCGMS01	0.20	µg/L	0.83	± 40.0%
tert-Butyl alcohol	W-VOCGMS01	5.0	µg/L	<5.0	----
Sum of BTEXS	W-VOCGMS01	1.80	µg/L	<1.80	----
Polycyclic Aromatics Hydrocarbons (PAHs)					
Naphthalene	W-PAHGMS04	0.0070	µg/L	<0.0070	----
Anthracene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(b)fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(k)fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(a)pyrene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Indeno(1.2.3.cd)pyrene	W-PAHGMS04	0.00030	µg/L	<0.00030	----
Benzo(g,h,i)perylene	W-PAHGMS04	0.00030	µg/L	<0.00030	----
Sum of Benzo(b)fluoranthene@Benzo(k)fluoranthene	W-PAHGMS04	0.0020	µg/L	<0.0020	----
Sum of Indeno(1.2.3.cd)pyrene@Benzo(g,h,i)perylene	W-PAHGMS04	0.00060	µg/L	<0.00060	----
Sum of 8 PAH (WFD)	W-PAHGMS04	0.0126	µg/L	<0.0126	----
PCBs					
PCB 28	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 52	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 101	W-PCBECD01	0.000750	µg/L	<0.000750	----
PCB 118	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 138	W-PCBECD01	0.00120	µg/L	<0.00120	----
PCB 153	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 180	W-PCBECD01	0.000950	µg/L	<0.000950	----
Sum of 6 PCBs	W-PCBECD01	0.00620	µg/L	<0.00620	----
Sum of 7 PCBs	W-PCBECD01	0.00730	µg/L	<0.00730	----
Organochlorine Pesticides					
Hexachlorobutadiene	W-OCPECD02	0.010	µg/L	<0.010	----
Pentachlorobenzene	W-OCPECD02	0.0020	µg/L	<0.0020	----
Trifluralin	W-OCPECD02	0.0050	µg/L	<0.0050	----
Hexachlorocyclohexane Alpha	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorobenzene (HCB)	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Beta	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Gamma	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Delta	W-OCPECD02	0.0020	µg/L	<0.0020	----
Alachlor	W-OCPECD02	0.0050	µg/L	<0.0050	----



Aldrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
Isodrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
alpha-Endosulfan	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDE	W-OCPECD02	0.0020	µg/L	<0.0020	----
Dieldrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
Endrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
beta-Endosulfan	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDD	W-OCPECD02	0.0020	µg/L	<0.0020	----
2.4-DDT	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDT	W-OCPECD02	0.0020	µg/L	<0.0020	----
Sum of 4 hexachlorcyclohexanes	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of 4 isomers DDT	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of 4 cyclodienes	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of endosulfanes	W-OCPECD02	0.0040	µg/L	<0.0040	----
Chlorophenols					
Pentachlorophenol	W-CLPGMS02	0.10	µg/L	<0.10	----
Alkylphenols					
4-Nonylphenol	W-AEOGMS01	0.050	µg/L	<0.050	----
4-t-Octylphenol	W-AEOGMS01	0.010	µg/L	<0.010	----
Phthalates					
Bis(2-ethylhexyl)phthalate (DEHP)	W-PTHGMS02	1.0	µg/L	<1.0	----
Organometallic Compounds					
Tributyltin	W-TSN-GAE	1	ng/L	<1	----

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, delivery date in brackets without a time component will be displayed instead. Measurement uncertainty is expressed as expanded measurement uncertainty with coverage factor k = 2, representing 95% confidence level.

Key: LOR = Limit of reporting; MU = Measurement Uncertainty

The end of result part of the certificate of analysis



Brief Method Summaries

Analytical Methods	Method Descriptions
<i>Location of test performance: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00</i>	
W-AEOGMS01	CZ_SOP_D06_03_178 (CSN EN ISO 18857-2) Determination of alkylphenols and alkylphenol ethoxylates by gas chromatography method with MS or MS/MS detection and calculation of alkylphenols and alkylphenol ethoxylates sums from measured values
W-CLPGMS02	CZ_SOP_D06_03_158 except chap. 9.3 a 9.4 (US EPA 8041, US EPA 3500, CSN EN 12673) Determination of phenols, chlorinated phenols and cresols by gas chromatography method with detection MS and ECD and calculation of phenols, chlorinated phenols and cresols sums from measured values
W-HG-AFSFL	CZ_SOP_D06_02_096 (US EPA 245.7, CSN EN ISO 178 52, CSN EN 16192, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1 and 10.2.). Determination of Mercury by Fluorescence Spectrometry. Sample was filtered by microfilter with porosity 0.45 µm followed by nitric acid addition prior to analysis.
W-METMSFLL1	CZ_SOP_D06_02_002 (US EPA 200.8, CSN EN ISO 17294-2, US EPA 6020A, CSN EN 16192, CSN 75 7358 samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1 and 10.2) Determination of elements by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values including the calculation of total mineralization and calculating the sum of Ca+Mg. Sample was filtered by microfilter with porosity 0.45 µm followed by nitric acid addition prior to analysis.
W-OCPECD02	CZ_SOP_D06_03_169 (CSN EN ISO 6468, US EPA 8081, DIN 38407-2, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1) Determination of organochlorine pesticides and other halogen compounds by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values
W-PAHGMS04	CZ_SOP_D06_03_161 (US EPA 8270, CSN EN ISO 6468, US EPA 8000D, samples preparation according to CZ_SOP_D06_03_P01 chap. 9.1, 9.4.1) Determination of semi volatile organic compounds by gas chromatography method with MS or MS/MS detection and calculation of semi volatile organic compounds sums from measured values
W-PCBECD01	CZ_SOP_D06_03_166 (DIN 38407, part 2, US EPA 8082, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1) Determination of polychlorinated biphenyls - congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values of polychlorinated biphenyls sums from measured values
W-PESLMS04	CZ_SOP_D06_03_182.A (DIN 38407-35, CEN/TS 15968) Determination of acidic herbicides, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of acidic herbicides, drug residues and other pollutants sums from measured values.
W-PTHGMS02	CZ_SOP_D06_03_159 except chap. 9.2 a 9.3 (US EPA 8061A) Determination of phthalates by gas chromatography method with MS detection and calculation of phthalates sums from measured values
W-STELMS01	CZ_SOP_D06_03_183.A (US EPA 535, US EPA 1694) Determination of pesticides, pesticide metabolites, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticide metabolites, drug residues and other pollutants sums from measured values.
W-TSN-GAE	Determination of Tributyltin by gas chromatography GC-ICP-SFMS according to ISO 17353:2004 [Subcontracted]
W-VOCGMS01	CZ_SOP_D06_03_155 except chap. 10.5, 10.6 (US EPA 624, US EPA 8260, US EPA 8015, EN ISO 10301, MADEP 2004, rev. 1.1, ISO 11423, ISO 15680) Determination of volatile organic compounds by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values

A `` symbol preceding any method indicates laboratory or subcontractor non-accredited test. In the case when a procedure belonging to an accredited method was used for non-accredited matrix, would apply that the reported results are non-accredited. Please refer to General Comment section on front page for information. If the report contains subcontracted analysis, those are made in a subcontracted laboratory outside the laboratories ALS Czech Republic, s.r.o.

The calculation methods of summation parameters are available on request in the client service.



Telef: 232817817
Fax: 232817819

Controlvet Segurança Alimentar S.A.

Zona Industrial de Tondela ZIM II, Lotes 2 e 6 3460-070 Tondela



Relatório nº 11282/2018 Pg 1/1

Data Emissão: 26-01-2018

N.º de Análise: H / 1147 / 18
Data Colheita: 22-01-2018
Data Receção: 23-01-2018
Data Início Ensaio: 23-01-2018
Data Fim Ensaio: 25-01-2018
Código Cliente: 6322

Exmo(s) Sr(s):
Bio3 - Estudos e Proj. em Biol. e Valorizacão
Rua Antero de Quental, 52 A,
Urbanizacão Colinas do Cruzeiro
2675-690 Odivelas

Unidade: Projecto Formosa (Armona)

Identificação da Amostra:

9933 / 18

Produto : Água Natural Salina
Referência : Pre A3
Acondicionamento : Frasco
Observações : Amostra 3 - 3º Campanha
A colheita de amostra não foi efectuada pela Controlvet.

Hora Recolha : 12h15
Nº Entrega : 87/2018

Ensaio	Método	Resultado	Unidade
Contagem de Coliformes	MEH10.02	0	ufc/100mL
Contagem de Escherichia coli	MEH10.02	0	ufc/100mL
Contagem de Enterococos	ISO 7899-2:2000	1	ufc/100mL

Lista de abreviaturas: NE- Número estimado; UFC- Unidades formadoras de colónias; LQ – Limite de quantificação; LD – limite de detecção; V.L. – Valor Limite; V.R. – Valor Recomendado; VP - Valor Paramétrico; C - Conforme; A - Aceitável; NC - Não Conforme; Unid. - Unidade; DO - Densidade óptica.

O ensaio assinalado com (s) foi subcontratado e não é acreditado.

O ensaio assinalado com (a) foi subcontratado e é acreditado.

Nos resultados assinalados com (y) os microrganismos estão presentes, mas inferiores a 4xdiluição.

Para os ensaios assinalados por técnicas de cálculo a metodologia seguida pode ser disponibilizada a pedido.

Este Relatório de Ensaio refere-se apenas às amostras analisadas.

Proibida a reprodução parcial deste documento.

Os ensaios assinalados com * não estão incluídos no âmbito da acreditação.

A colheita de amostra efectuada não está incluída no âmbito da acreditação.

Mod 201.19 Documento Processado por Computador

Elisa Maia

Técnica Superior Laboratório
Elisa Maia



Telef: 232817817

Fax: 232817819

Controlvet Segurança Alimentar S.A.

Zona Industrial de Tondela ZIM II, Lotes 2 e 6 3460-070 Tondela

Relatório nº 24265/2018 Pg 1/1

Data Emissão: 12-02-2018

N.º de Análise: QH / 836 / 18
Data Colheita: 22-01-2018
Data Receção: 23-01-2018
Data Início Ensaio: 23-01-2018
Data Fim Ensaio: 12-02-2018
Código Cliente: 6322

Exmo(s) Sr(s):

Bio3 - Estudos e Proj. em Biol. e Valorizacão
Rua Antero de Quental, 52 A,
Urbanizacão Colinas do Cruzeiro
2675-690 Odivelas

Unidade: Projecto Formosa (Armona)

Identificação da Amostra:

9933 / 18

Produto : Água Natural Salina

Referência : Pre A3

Acondicionamento : Frasco

Observações : Amostra 3 - 3º Campanha

A colheita de amostra não foi efectuada pela Controlvet.

Hora Recolha : 12h15

Nº Entrega : 87/2018

Ensaio	Método	Resultado	Unidade
(a) Parâmetros físico-químicos	Descrição em anexo	Resultado em anexo.	.

Método interno equivalente é aquele que tem a mesma área de aplicação (parâmetros e matrizes) e que cumpre as características de desempenho, obtendo resultados comparáveis ao(s) método(s) normalizado(s) junto indicado(s)

Lista de abreviaturas: NE- Número estimado; UFC- Unidades formadoras de colónias; LQ – Limite de quantificação; LD – limite de detecção; V.L. – Valor Limite; V.R. – Valor Recomendado; VP - Valor Paramétrico; C - Conforme; A - Aceitável; NC - Não Conforme; Unid. - Unidade; DO - Densidade óptica.

O ensaio assinalado com (s) foi subcontratado e não é acreditado.

O ensaio assinalado com (a) foi subcontratado e é acreditado.

Nos resultados assinalados com (y) os microrganismos estão presentes, mas inferiores a 4xdiluição.

Para os ensaios assinalados por técnicas de cálculo a metodologia seguida pode ser disponibilizada a pedido.

Este Relatório de Ensaio refere-se apenas às amostras analisadas.

Proibida a reprodução parcial deste documento.

Eugénia Silva

Técnica Superior de Laboratório
Eugénia Silva



CERTIFICATE OF ANALYSIS

Laboratory sample ID	: PR1806046003	Work Order	: PR1806046
		Issue Date	: 09-Feb-2018
Customer	: CONTROLVET - Seguranca Alimentar, S. A.	Laboratory	: ALS Czech Republic, s.r.o.
Contact	: Ms. Catarina Rodrigues	Contact	: Client Service
Address	: Zona Industrial de Tondela ZIM II - Lote 6 3460-070 Tondela Portugal	Address	: Na Harfe 336/9 Prague 9 - Vysocany 190 00 Czech Republic
E-mail	: catarinarodrigues.laboratorio@controlvet.pt	E-mail	: customer.support@alsglobal.com
Telephone	: ----	Telephone	: +420 226 226 228
Facsimile	: ----	Facsimile	: +420 284 081 635
Project	: ECF 2017/4656	Page	: 1 of 5
Order number	: ----	Date Samples Received	: 24-Jan-2018
C-O-C number	: ----	Quote number	: PR2015CONSE-PT0006 (PT-254-15-0938)
Site	: ----	Date of test	: 24-Jan-2018 - 09-Feb-2018
Sampled by	: client	QC Level	: ALS CR Standard Quality Control Schedule

General Comments

This report shall not be reproduced except in full, without prior written approval from the laboratory.

The laboratory declares that the test results relate only to the listed samples.

Sample(s) PR1806046/1 - 4, method W-METMSFLL- LOR for particular sample(s) raised due to matrix interference.

Samples PR1806046/1-4, method W-STELMS01 LOR was increased due to dilution.

Should a sample contain sediment it is decanted prior to volatile compounds determination.

Signatories

Testing Laboratory No. 1163
Accredited by CAI according to
CSN EN ISO/IEC 17025:2005

Signatories
Zdeněk Jiráček

Position
Environmental Business Unit
Manager





Analytical Results

Sub-Matrix: SALINE WATER

Laboratory sample ID

Client sampling date / time

QH/836/2018

[23-Jan-2018]

Parameter	Method	LOR	Unit	Result	MU
Estrogenic Hormones					
17-Alpha-Ethinylestradiol	W-STELMS01	0.050	µg/L	<0.500	----
17-Beta-Estradiol	W-STELMS01	0.050	µg/L	<0.500	----
Pharmaceutical Compounds					
Diclofenac	W-PESLMS04	0.040	µg/L	<0.040	----
Ibuprofen	W-PESLMS04	0.050	µg/L	<0.050	----
Dissolved Metals / Major Cations					
Cadmium	W-METMSFLL1	0.020	µg/L	<0.400	----
Lead	W-METMSFLL1	0.050	µg/L	<1.00	----
Mercury	W-HG-AFSFL	0.010	µg/L	<0.010	----
Nickel	W-METMSFLL1	0.200	µg/L	<4.00	----
BTEX					
Benzene	W-VOCGMS01	0.20	µg/L	<0.20	----
Toluene	W-VOCGMS01	1.00	µg/L	<1.00	----
Ethylbenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
meta- & para-Xylene	W-VOCGMS01	0.20	µg/L	<0.20	----
ortho-Xylene	W-VOCGMS01	0.10	µg/L	<0.10	----
Sum of BTEX	W-VOCGMS01	1.60	µg/L	<1.60	----
Sum of xylenes	W-VOCGMS01	0.30	µg/L	<0.30	----
Sum of TEX	W-VOCGMS01	1.40	µg/L	<1.40	----
Halogenated Volatile Organic Compounds					
Vinyl chloride	W-VOCGMS01	1.00	µg/L	<1.00	----
trans-1,2-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
Dichloromethane	W-VOCGMS01	6.0	µg/L	<6.0	----
1,1-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
cis-1,2-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,1-Dichloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Chloroform	W-VOCGMS01	0.30	µg/L	<0.30	----
1,2-Dichloroethane	W-VOCGMS01	1.00	µg/L	<1.00	----
1,1,1-Trichloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Tetrachloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Bromodichloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Trichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,1,2-Trichloroethane	W-VOCGMS01	0.20	µg/L	<0.20	----
Dibromochloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Tetrachloroethene	W-VOCGMS01	0.20	µg/L	<0.20	----
1,1,1,2-Tetrachloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Chlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
Bromoform	W-VOCGMS01	0.20	µg/L	<0.20	----
1,1,2,2-Tetrachloroethane	W-VOCGMS01	1.00	µg/L	<1.00	----
1,2-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,4-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,3-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----



1.2.4-Trichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1.2.3-Trichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1.3.5-Trichlorobenzene	W-VOCGMS01	0.20	µg/L	<0.20	----
1.2-Dichloropropane	W-VOCGMS01	1.0	µg/L	<1.0	----
Sum of 4 Trihalomethanes	W-VOCGMS01	0.70	µg/L	<0.70	----
Sum of 3 Dichlorobenzenes	W-VOCGMS01	0.30	µg/L	<0.30	----
Sum of 3 Trichlorobenzenes	W-VOCGMS01	0.40	µg/L	<0.40	----
Sum of 5 Chlorinated Ethenes	W-VOCGMS01	0.60	µg/L	<0.60	----
Non-Halogenated Volatile Organic Compounds					
Styrene	W-VOCGMS01	0.20	µg/L	<0.20	----
Methyl tert-Butyl Ether (MTBE)	W-VOCGMS01	0.20	µg/L	<0.20	----
tert-Butyl alcohol	W-VOCGMS01	5.0	µg/L	<5.0	----
Sum of BTEXS	W-VOCGMS01	1.80	µg/L	<1.80	----
Polycyclic Aromatics Hydrocarbons (PAHs)					
Naphthalene	W-PAHGMS04	0.0070	µg/L	<0.0070	----
Anthracene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(b)fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(k)fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(a)pyrene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Indeno(1.2.3.cd)pyrene	W-PAHGMS04	0.00030	µg/L	<0.00030	----
Benzo(g,h,i)perylene	W-PAHGMS04	0.00030	µg/L	<0.00030	----
Sum of Benzo(b)fluoranthene@Benzo(k)fluoranthene	W-PAHGMS04	0.0020	µg/L	<0.0020	----
Sum of Indeno(1.2.3.cd)pyrene@Benzo(g,h,i)perylene	W-PAHGMS04	0.00060	µg/L	<0.00060	----
Sum of 8 PAH (WFD)	W-PAHGMS04	0.0126	µg/L	<0.0126	----
PCBs					
PCB 28	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 52	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 101	W-PCBECD01	0.000750	µg/L	<0.000750	----
PCB 118	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 138	W-PCBECD01	0.00120	µg/L	<0.00120	----
PCB 153	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 180	W-PCBECD01	0.000950	µg/L	<0.000950	----
Sum of 6 PCBs	W-PCBECD01	0.00620	µg/L	<0.00620	----
Sum of 7 PCBs	W-PCBECD01	0.00730	µg/L	<0.00730	----
Organochlorine Pesticides					
Hexachlorobutadiene	W-OCPECD02	0.010	µg/L	<0.010	----
Pentachlorobenzene	W-OCPECD02	0.0020	µg/L	<0.0020	----
Trifluralin	W-OCPECD02	0.0050	µg/L	<0.0050	----
Hexachlorocyclohexane Alpha	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorobenzene (HCB)	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Beta	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Gamma	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Delta	W-OCPECD02	0.0020	µg/L	<0.0020	----
Alachlor	W-OCPECD02	0.0050	µg/L	<0.0050	----



Aldrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
Isodrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
alpha-Endosulfan	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDE	W-OCPECD02	0.0020	µg/L	<0.0020	----
Dieldrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
Endrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
beta-Endosulfan	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDD	W-OCPECD02	0.0020	µg/L	<0.0020	----
2.4-DDT	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDT	W-OCPECD02	0.0020	µg/L	<0.0020	----
Sum of 4 hexachlorcyclohexanes	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of 4 isomers DDT	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of 4 cyclodienes	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of endosulfanes	W-OCPECD02	0.0040	µg/L	<0.0040	----
Chlorophenols					
Pentachlorophenol	W-CLPGMS02	0.10	µg/L	<0.10	----
Alkylphenols					
4-Nonylphenol	W-AEOGMS01	0.050	µg/L	<0.050	----
4-t-Octylphenol	W-AEOGMS01	0.010	µg/L	<0.010	----
Phthalates					
Bis(2-ethylhexyl)phthalate (DEHP)	W-PTHGMS02	1.0	µg/L	<1.0	----
Organometallic Compounds					
Tributyltin	W-TSN-GAE	1	ng/L	<1	----

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, delivery date in brackets without a time component will be displayed instead. Measurement uncertainty is expressed as expanded measurement uncertainty with coverage factor k = 2, representing 95% confidence level.

Key: LOR = Limit of reporting; MU = Measurement Uncertainty

The end of result part of the certificate of analysis



Brief Method Summaries

Analytical Methods	Method Descriptions
<i>Location of test performance: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00</i>	
W-AEOGMS01	CZ_SOP_D06_03_178 (CSN EN ISO 18857-2) Determination of alkylphenols and alkylphenol ethoxylates by gas chromatography method with MS or MS/MS detection and calculation of alkylphenols and alkylphenol ethoxylates sums from measured values
W-CLPGMS02	CZ_SOP_D06_03_158 except chap. 9.3 a 9.4 (US EPA 8041, US EPA 3500, CSN EN 12673) Determination of phenols, chlorinated phenols and cresols by gas chromatography method with detection MS and ECD and calculation of phenols, chlorinated phenols and cresols sums from measured values
W-HG-AFSFL	CZ_SOP_D06_02_096 (US EPA 245.7, CSN EN ISO 178 52, CSN EN 16192, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1 and 10.2.). Determination of Mercury by Fluorescence Spectrometry. Sample was filtered by microfilter with porosity 0.45 µm followed by nitric acid addition prior to analysis.
W-METMSFLL1	CZ_SOP_D06_02_002 (US EPA 200.8, CSN EN ISO 17294-2, US EPA 6020A, CSN EN 16192, CSN 75 7358 samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1 and 10.2) Determination of elements by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values including the calculation of total mineralization and calculating the sum of Ca+Mg. Sample was filtered by microfilter with porosity 0.45 µm followed by nitric acid addition prior to analysis.
W-OCPECD02	CZ_SOP_D06_03_169 (CSN EN ISO 6468, US EPA 8081, DIN 38407-2, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1) Determination of organochlorine pesticides and other halogen compounds by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values
W-PAHGMS04	CZ_SOP_D06_03_161 (US EPA 8270, CSN EN ISO 6468, US EPA 8000D, samples preparation according to CZ_SOP_D06_03_P01 chap. 9.1, 9.4.1) Determination of semi volatile organic compounds by gas chromatography method with MS or MS/MS detection and calculation of semi volatile organic compounds sums from measured values
W-PCBECD01	CZ_SOP_D06_03_166 (DIN 38407, part 2, US EPA 8082, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1) Determination of polychlorinated biphenyls - congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values of polychlorinated biphenyls sums from measured values
W-PESLMS04	CZ_SOP_D06_03_182.A (DIN 38407-35, CEN/TS 15968) Determination of acidic herbicides, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of acidic herbicides, drug residues and other pollutants sums from measured values.
W-PTHGMS02	CZ_SOP_D06_03_159 except chap. 9.2 a 9.3 (US EPA 8061A) Determination of phthalates by gas chromatography method with MS detection and calculation of phthalates sums from measured values
W-STELMS01	CZ_SOP_D06_03_183.A (US EPA 535, US EPA 1694) Determination of pesticides, pesticide metabolites, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticide metabolites, drug residues and other pollutants sums from measured values.
W-TSN-GAE	Determination of Tributyltin by gas chromatography GC-ICP-SFMS according to ISO 17353:2004 [Subcontracted]
W-VOCGMS01	CZ_SOP_D06_03_155 except chap. 10.5, 10.6 (US EPA 624, US EPA 8260, US EPA 8015, EN ISO 10301, MADEP 2004, rev. 1.1, ISO 11423, ISO 15680) Determination of volatile organic compounds by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values

A `` symbol preceding any method indicates laboratory or subcontractor non-accredited test. In the case when a procedure belonging to an accredited method was used for non-accredited matrix, would apply that the reported results are non-accredited. Please refer to General Comment section on front page for information. If the report contains subcontracted analysis, those are made in a subcontracted laboratory outside the laboratories ALS Czech Republic, s.r.o.

The calculation methods of summation parameters are available on request in the client service.



Telef: 232817817
Fax: 232817819

Controlvet Segurança Alimentar S.A.

Zona Industrial de Tondela ZIM II, Lotes 2 e 6 3460-070 Tondela



Relatório nº 11639/2018 Pg 1/1

Data Emissão: 26-01-2018

N.º de Análise: H / 1148 / 18
Data Colheita: 22-01-2018
Data Receção: 23-01-2018
Data Início Ensaio: 23-01-2018
Data Fim Ensaio: 26-01-2018
Código Cliente: 6322

Exmo(s) Sr(s):
Bio3 - Estudos e Proj. em Biol. e Valorizacão
Rua Antero de Quental, 52 A,
Urbanizacão Colinas do Cruzeiro
2675-690 Odivelas

Unidade: Projecto Formosa (Armona)

Identificação da Amostra:

9934 / 18

Produto : Água Natural Salina
Referência : Pre A2
Acondicionamento : Frasco
Observações : Amostra 2 - 3º Campanha
A colheita de amostra não foi efectuada pela Controlvet.

Hora Recolha : 11h00
Nº Entrega : 87/2018

Ensaio	Método	Resultado	Unidade
Contagem de Coliformes	MEH10.02	1	ufc/100mL
Contagem de Escherichia coli	MEH10.02	0	ufc/100mL
Contagem de Enterococos	ISO 7899-2:2000	1	ufc/100mL

Lista de abreviaturas: NE- Número estimado; UFC- Unidades formadoras de colónias; LQ – Limite de quantificação; LD – limite de detecção; V.L. – Valor Limite; V.R. – Valor Recomendado; VP - Valor Paramétrico; C - Conforme; A - Aceitável; NC - Não Conforme; Unid. - Unidade; DO - Densidade óptica.

O ensaio assinalado com (s) foi subcontratado e não é acreditado.

O ensaio assinalado com (a) foi subcontratado e é acreditado.

Nos resultados assinalados com (y) os microrganismos estão presentes, mas inferiores a 4xdiluição.

Para os ensaios assinalados por técnicas de cálculo a metodologia seguida pode ser disponibilizada a pedido.

Este Relatório de Ensaio refere-se apenas às amostras analisadas.

Proibida a reprodução parcial deste documento.

Os ensaios assinalados com * não estão incluídos no âmbito da acreditação.

A colheita de amostra efectuada não está incluída no âmbito da acreditação.

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Elisa Mara

Técnica Superior Laboratório
Elisa Maia



Telef: 232817817

Fax: 232817819

Controlvet Segurança Alimentar S.A.

Zona Industrial de Tondela ZIM II, Lotes 2 e 6 3460-070 Tondela

Relatório nº 24266/2018 Pg 1/1

Data Emissão: 12-02-2018

N.º de Análise: QH / 837 / 18
Data Colheita: 22-01-2018
Data Receção: 23-01-2018
Data Início Ensaio: 23-01-2018
Data Fim Ensaio: 12-02-2018
Código Cliente: 6322

Exmo(s) Sr(s):

Bio3 - Estudos e Proj. em Biol. e Valorizacão
Rua Antero de Quental, 52 A,
Urbanizacão Colinas do Cruzeiro
2675-690 Odivelas

Unidade: Projecto Formosa (Armona)

Identificação da Amostra:

9934 / 18

Produto : Água Natural Salina

Referência : Pre A2

Acondicionamento : Frasco

Observações : Amostra 2 - 3º Campanha

A colheita de amostra não foi efectuada pela Controlvet.

Hora Recolha : 11h00

Nº Entrega : 87/2018

Ensaio	Método	Resultado	Unidade
(a) Parâmetros físico-químicos	Descrição em anexo	Resultado em anexo.	.

Método interno equivalente é aquele que tem a mesma área de aplicação (parâmetros e matrizes) e que cumpre as características de desempenho, obtendo resultados comparáveis ao(s) método(s) normalizado(s) junto indicado(s)

Lista de abreviaturas: NE- Número estimado; UFC- Unidades formadoras de colónias; LQ – Limite de quantificação; LD – limite de detecção; V.L. – Valor Limite; V.R. – Valor Recomendado; VP - Valor Paramétrico; C - Conforme; A - Aceitável; NC - Não Conforme; Unid. - Unidade; DO - Densidade óptica.

O ensaio assinalado com (s) foi subcontratado e não é acreditado.

O ensaio assinalado com (a) foi subcontratado e é acreditado.

Nos resultados assinalados com (y) os microrganismos estão presentes, mas inferiores a 4xdiluição.

Para os ensaios assinalados por técnicas de cálculo a metodologia seguida pode ser disponibilizada a pedido.

Este Relatório de Ensaio refere-se apenas às amostras analisadas.

Proibida a reprodução parcial deste documento.

Eugénia Silva

Técnica Superior de Laboratório
Eugénia Silva



CERTIFICATE OF ANALYSIS

Laboratory sample ID	: PR1806046004	Work Order	: PR1806046
		Issue Date	: 09-Feb-2018
Customer	: CONTROLVET - Seguranca Alimentar, S. A.	Laboratory	: ALS Czech Republic, s.r.o.
Contact	: Ms. Catarina Rodrigues	Contact	: Client Service
Address	: Zona Industrial de Tondela ZIM II - Lote 6 3460-070 Tondela Portugal	Address	: Na Harfe 336/9 Prague 9 - Vysocany 190 00 Czech Republic
E-mail	: catarinarodrigues.laboratorio@controlvet.pt	E-mail	: customer.support@alsglobal.com
Telephone	: ----	Telephone	: +420 226 226 228
Facsimile	: ----	Facsimile	: +420 284 081 635
Project	: ECF 2017/4656	Page	: 1 of 5
Order number	: ----	Date Samples Received	: 24-Jan-2018
C-O-C number	: ----	Quote number	: PR2015CONSE-PT0006 (PT-254-15-0938)
Site	: ----	Date of test	: 24-Jan-2018 - 09-Feb-2018
Sampled by	: client	QC Level	: ALS CR Standard Quality Control Schedule

General Comments

This report shall not be reproduced except in full, without prior written approval from the laboratory.

The laboratory declares that the test results relate only to the listed samples.

Sample(s) PR1806046/1 - 4, method W-METMSFLL- LOR for particular sample(s) raised due to matrix interference.

Samples PR1806046/1-4, method W-STELMS01 LOR was increased due to dilution.

Should a sample contain sediment it is decanted prior to volatile compounds determination.

Signatories

Signatories
Zdeněk Jiráček

Position
Environmental Business Unit
Manager

Testing Laboratory No. 1163
Accredited by CAI according to
CSN EN ISO/IEC 17025:2005





Analytical Results

Sub-Matrix: SALINE WATER

Laboratory sample ID

Client sampling date / time

QH/837/2018

[23-Jan-2018]

Parameter	Method	LOR	Unit	Result	MU
Estrogenic Hormones					
17-Alpha-Ethinylestradiol	W-STELMS01	0.050	µg/L	<0.500	----
17-Beta-Estradiol	W-STELMS01	0.050	µg/L	<0.500	----
Pharmaceutical Compounds					
Diclofenac	W-PESLMS04	0.040	µg/L	<0.040	----
Ibuprofen	W-PESLMS04	0.050	µg/L	<0.050	----
Dissolved Metals / Major Cations					
Cadmium	W-METMSFLL1	0.020	µg/L	<0.400	----
Lead	W-METMSFLL1	0.050	µg/L	<1.00	----
Mercury	W-HG-AFSFL	0.010	µg/L	<0.010	----
Nickel	W-METMSFLL1	0.200	µg/L	<4.00	----
BTEX					
Benzene	W-VOCGMS01	0.20	µg/L	<0.20	----
Toluene	W-VOCGMS01	1.00	µg/L	<1.00	----
Ethylbenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
meta- & para-Xylene	W-VOCGMS01	0.20	µg/L	<0.20	----
ortho-Xylene	W-VOCGMS01	0.10	µg/L	<0.10	----
Sum of BTEX	W-VOCGMS01	1.60	µg/L	<1.60	----
Sum of xylenes	W-VOCGMS01	0.30	µg/L	<0.30	----
Sum of TEX	W-VOCGMS01	1.40	µg/L	<1.40	----
Halogenated Volatile Organic Compounds					
Vinyl chloride	W-VOCGMS01	1.00	µg/L	<1.00	----
trans-1,2-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
Dichloromethane	W-VOCGMS01	6.0	µg/L	<6.0	----
1,1-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
cis-1,2-Dichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,1-Dichloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Chloroform	W-VOCGMS01	0.30	µg/L	<0.30	----
1,2-Dichloroethane	W-VOCGMS01	1.00	µg/L	<1.00	----
1,1,1-Trichloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Tetrachloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Bromodichloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Trichloroethene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,1,2-Trichloroethane	W-VOCGMS01	0.20	µg/L	<0.20	----
Dibromochloromethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Tetrachloroethene	W-VOCGMS01	0.20	µg/L	<0.20	----
1,1,1,2-Tetrachloroethane	W-VOCGMS01	0.10	µg/L	<0.10	----
Chlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
Bromoform	W-VOCGMS01	0.20	µg/L	<0.20	----
1,1,2,2-Tetrachloroethane	W-VOCGMS01	1.00	µg/L	<1.00	----
1,2-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,4-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1,3-Dichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----



1.2.4-Trichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1.2.3-Trichlorobenzene	W-VOCGMS01	0.10	µg/L	<0.10	----
1.3.5-Trichlorobenzene	W-VOCGMS01	0.20	µg/L	<0.20	----
1.2-Dichloropropane	W-VOCGMS01	1.0	µg/L	<1.0	----
Sum of 4 Trihalomethanes	W-VOCGMS01	0.70	µg/L	<0.70	----
Sum of 3 Dichlorobenzenes	W-VOCGMS01	0.30	µg/L	<0.30	----
Sum of 3 Trichlorobenzenes	W-VOCGMS01	0.40	µg/L	<0.40	----
Sum of 5 Chlorinated Ethenes	W-VOCGMS01	0.60	µg/L	<0.60	----
Non-Halogenated Volatile Organic Compounds					
Styrene	W-VOCGMS01	0.20	µg/L	<0.20	----
Methyl tert-Butyl Ether (MTBE)	W-VOCGMS01	0.20	µg/L	<0.20	----
tert-Butyl alcohol	W-VOCGMS01	5.0	µg/L	<5.0	----
Sum of BTEXS	W-VOCGMS01	1.80	µg/L	<1.80	----
Polycyclic Aromatics Hydrocarbons (PAHs)					
Naphthalene	W-PAHGMS04	0.0070	µg/L	0.0327	± 33.0%
Anthracene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(b)fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(k)fluoranthene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Benzo(a)pyrene	W-PAHGMS04	0.0010	µg/L	<0.0010	----
Indeno(1.2.3.cd)pyrene	W-PAHGMS04	0.00030	µg/L	<0.00030	----
Benzo(g,h,i)perylene	W-PAHGMS04	0.00030	µg/L	<0.00030	----
Sum of Benzo(b)fluoranthene@Benzo(k)fluoranthene	W-PAHGMS04	0.0020	µg/L	<0.0020	----
Sum of Indeno(1.2.3.cd)pyrene@Benzo(g,h,i)perylene	W-PAHGMS04	0.00060	µg/L	<0.00060	----
Sum of 8 PAH (WFD)	W-PAHGMS04	0.0126	µg/L	0.0327	----
PCBs					
PCB 28	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 52	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 101	W-PCBECD01	0.000750	µg/L	<0.000750	----
PCB 118	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 138	W-PCBECD01	0.00120	µg/L	<0.00120	----
PCB 153	W-PCBECD01	0.00110	µg/L	<0.00110	----
PCB 180	W-PCBECD01	0.000950	µg/L	<0.000950	----
Sum of 6 PCBs	W-PCBECD01	0.00620	µg/L	<0.00620	----
Sum of 7 PCBs	W-PCBECD01	0.00730	µg/L	<0.00730	----
Organochlorine Pesticides					
Hexachlorobutadiene	W-OCPECD02	0.010	µg/L	<0.010	----
Pentachlorobenzene	W-OCPECD02	0.0020	µg/L	<0.0020	----
Trifluralin	W-OCPECD02	0.0050	µg/L	<0.0050	----
Hexachlorocyclohexane Alpha	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorobenzene (HCB)	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Beta	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Gamma	W-OCPECD02	0.0020	µg/L	<0.0020	----
Hexachlorocyclohexane Delta	W-OCPECD02	0.0020	µg/L	<0.0020	----
Alachlor	W-OCPECD02	0.0050	µg/L	<0.0050	----



Aldrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
Isodrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
alpha-Endosulfan	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDE	W-OCPECD02	0.0020	µg/L	<0.0020	----
Dieldrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
Endrin	W-OCPECD02	0.0020	µg/L	<0.0020	----
beta-Endosulfan	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDD	W-OCPECD02	0.0020	µg/L	<0.0020	----
2.4-DDT	W-OCPECD02	0.0020	µg/L	<0.0020	----
4.4'-DDT	W-OCPECD02	0.0020	µg/L	<0.0020	----
Sum of 4 hexachlorcyclohexanes	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of 4 isomers DDT	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of 4 cyclodienes	W-OCPECD02	0.0080	µg/L	<0.0080	----
Sum of endosulfanes	W-OCPECD02	0.0040	µg/L	<0.0040	----
Chlorophenols					
Pentachlorophenol	W-CLPGMS02	0.10	µg/L	<0.10	----
Alkylphenols					
4-Nonylphenol	W-AEOGMS01	0.050	µg/L	<0.050	----
4-t-Octylphenol	W-AEOGMS01	0.010	µg/L	<0.010	----
Phthalates					
Bis(2-ethylhexyl)phthalate (DEHP)	W-PTHGMS02	1.0	µg/L	<1.0	----
Organometallic Compounds					
Tributyltin	W-TSN-GAE	1	ng/L	<1	----

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, delivery date in brackets without a time component will be displayed instead. Measurement uncertainty is expressed as expanded measurement uncertainty with coverage factor k = 2, representing 95% confidence level.

Key: LOR = Limit of reporting; MU = Measurement Uncertainty

The end of result part of the certificate of analysis



Brief Method Summaries

Analytical Methods	Method Descriptions
<i>Location of test performance: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00</i>	
W-AEOGMS01	CZ_SOP_D06_03_178 (CSN EN ISO 18857-2) Determination of alkylphenols and alkylphenol ethoxylates by gas chromatography method with MS or MS/MS detection and calculation of alkylphenols and alkylphenol ethoxylates sums from measured values
W-CLPGMS02	CZ_SOP_D06_03_158 except chap. 9.3 a 9.4 (US EPA 8041, US EPA 3500, CSN EN 12673) Determination of phenols, chlorinated phenols and cresols by gas chromatography method with detection MS and ECD and calculation of phenols, chlorinated phenols and cresols sums from measured values
W-HG-AFSFL	CZ_SOP_D06_02_096 (US EPA 245.7, CSN EN ISO 178 52, CSN EN 16192, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1 and 10.2.). Determination of Mercury by Fluorescence Spectrometry. Sample was filtered by microfilter with porosity 0.45 µm followed by nitric acid addition prior to analysis.
W-METMSFLL1	CZ_SOP_D06_02_002 (US EPA 200.8, CSN EN ISO 17294-2, US EPA 6020A, CSN EN 16192, CSN 75 7358 samples prepared as per CZ_SOP_D06_02_J02 chap. 10.1 and 10.2) Determination of elements by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values including the calculation of total mineralization and calculating the sum of Ca+Mg. Sample was filtered by microfilter with porosity 0.45 µm followed by nitric acid addition prior to analysis.
W-OCPECD02	CZ_SOP_D06_03_169 (CSN EN ISO 6468, US EPA 8081, DIN 38407-2, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1) Determination of organochlorine pesticides and other halogen compounds by gas chromatography method with ECD detection and calculation of organochlorine pesticides and other halogen compounds sums from measured values
W-PAHGMS04	CZ_SOP_D06_03_161 (US EPA 8270, CSN EN ISO 6468, US EPA 8000D, samples preparation according to CZ_SOP_D06_03_P01 chap. 9.1, 9.4.1) Determination of semi volatile organic compounds by gas chromatography method with MS or MS/MS detection and calculation of semi volatile organic compounds sums from measured values
W-PCBECD01	CZ_SOP_D06_03_166 (DIN 38407, part 2, US EPA 8082, samples prepared as per CZ_SOP_D06_03_P01 chap. 9.1, CZ_SOP_D06_03_P02 chap. 9.1) Determination of polychlorinated biphenyls - congener analyses by gas chromatography method with ECD detection and calculation of polychlorinated biphenyls sums from measured values of polychlorinated biphenyls sums from measured values
W-PESLMS04	CZ_SOP_D06_03_182.A (DIN 38407-35, CEN/TS 15968) Determination of acidic herbicides, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of acidic herbicides, drug residues and other pollutants sums from measured values.
W-PTHGMS02	CZ_SOP_D06_03_159 except chap. 9.2 a 9.3 (US EPA 8061A) Determination of phthalates by gas chromatography method with MS detection and calculation of phthalates sums from measured values
W-STELMS01	CZ_SOP_D06_03_183.A (US EPA 535, US EPA 1694) Determination of pesticides, pesticide metabolites, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticide metabolites, drug residues and other pollutants sums from measured values.
W-TSN-GAE	Determination of Tributyltin by gas chromatography GC-ICP-SFMS according to ISO 17353:2004 [Subcontracted]
W-VOCGMS01	CZ_SOP_D06_03_155 except chap. 10.5, 10.6 (US EPA 624, US EPA 8260, US EPA 8015, EN ISO 10301, MADEP 2004, rev. 1.1, ISO 11423, ISO 15680) Determination of volatile organic compounds by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values

A `` symbol preceding any method indicates laboratory or subcontractor non-accredited test. In the case when a procedure belonging to an accredited method was used for non-accredited matrix, would apply that the reported results are non-accredited. Please refer to General Comment section on front page for information. If the report contains subcontracted analysis, those are made in a subcontracted laboratory outside the laboratories ALS Czech Republic, s.r.o.

The calculation methods of summation parameters are available on request in the client service.