GENERAL DATA

APPLICANT:
ADDRESS:
TOWN: MALAGA
 # SAMPLE DENOMINATION: ANALISIS COMPLETO
SAMPLE DESCRIPTION: 50 mL (Na2S2O3) vial(3), 50 mL glass vial (NH4Cl)(1), 500 mL sterile plastic (Sodium Thiosulfate)(2), 500ml amber glass bottle (sodium thiosulfate)(1), 50mL container (NaOH)(1), Envase de vidrio de 50 mL (1), Plastic bottle of 500 mL(1), sterile 15 mL container(2), sterile 15 mL container (HNO3)(1), containing drinking water

Analysis performed in LABAQUA. Tests covered by ENAC accreditation nº 109/LE285; C/ Dracma,16-18- Pol. Ind. Las Atalayas 03114 ALICANTE - Tel. +34 965 10 60 70 - Fax +34 965 10 60 80:

PARAMETERS	METHODS	RD 3/2023	RESULTS	UNITS
Organoleptics characters				
Colour	A-A-PE-0032 Multiparametric probe	15	< 1.0 ± 18%	mg/L Pt/Co
Odor	UNE-EN 1622:2007 Simplified method	3	Sin Olor anormal	Ind. de dil.
Taste	UNE-EN 1622:2007 Simplified method	3	Sin Sabor anormal	Ind. de dil.
Turbidity	A-A-PE-0032 Multiparametric probe	0.8	< 0.20 ± 19%	UNF
Physical and chemical constituents				
Ammonium	A-C-PE-0023 Absorption spectrophotometry	0.50	0.10 ± 25%	mg/L
Langelier index	A-F-PE-0044 Calculation	+/- 0.5	-2.33 ± 23%	--
Bicarbonates	A-A-PE-0033 Metrohm Titrator		22.5 ± 12%	mg/L
Calcium	A-D-PE-0026-1 Metals ICP-MS	100	2.4 ± 12%	mg/L
Carbonate	A-A-PE-0033 Metrohm Titrator		< 2.0 ± 13%	mg/L
Conductivity at 20ºC	A-A-PE-0032 Multiparametric probe	2500	48 ± 12%	µS/cm
pH	A-A-PE-0032 Multiparametric probe	6.5-9.5	7.3 ± 0.1	U. pH.
* Temperature	A-A-PE-0016 Thermometry		22.6	ºC
Nitrites	A-C-PE-0010 Absortion spectrometry	0.1	< 0.01 ± 13%	mg/L
Oxidability	UNE-EN ISO 8467:1995	5.0	< 0.50 ± 12%	mg O_2/L
Residual combined chlorine	A-C-PE-0018 Absorption Spectrophotometry		< 0.05 ± 21%	mg/L
Free Residual Chlorine	A-C-PE-0018 Absorption Spectrophotometry		< 0.05 ± 17%	mg/L
Total Cyanide	A-F-PE-0057 SFA	50	<5 ± 28%	µg/L
Total organic carbon	A-F-PE-0001 Combustion - FTIR	5.0	< 0.5 ± 15%	mg/L
Majority Cations				
Sodium	A-D-PE-0026-1 Metals ICP-MS	200	< 1.0 ± 12%	mg/L
Anions				
Bromates	PE-BV/0037 HPLC-Conductivity	10	< 3.0 ± 23.9%	µg/L
Chlorates	A-BV-PE-0051 HPLC-Conductivity	0.7	< 0.080 ± 18%	mg/L
Chloride	A-BV-PE-0001HPLC-Conductivity	250	< 1.0 ± 13.0%	mg/L
Chlorites	A-BV-PE-0051 HPLC-Conductivity	0.7	< 0.080 ± 19%	mg/L
Fluoride	A-BV-PE-0001HPLC-Conductivity	1.5	< 0.10 ± 12.9%	mg/L
Nitrate	A-BV-PE-0001HPLC-Conductivity	50	< 0.5 ± 13.1%	mg/L

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Indene[1,2,3-c,d]pyrene	BS/0079-Organic Compounds by SBSE-MSMS		< 0.0005 ± 40 %	µg/L
Pesticides				
Sum of pesticides	BS/0079-Organic Compounds by SBSE-MSMS	0.50	< 0.40	µg/L
2,4-D	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.010 ± 40%	µg/L
a-HCH	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40%	µg/L
Alaclor	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40%	µg/L
Aldrin	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Ametryn	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.03	< 0.030 ± 40%	µg/L
AMPA	A-BS-PE-0073 Derivatization-SPE ON LINE-HPLC-MS-MS	0.10	< 0.03 ± 40%	µg/L
Atrazine	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.03	< 0.010 ± 40%	µg/L
Chlorpyrifos	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Cianazina	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.03	< 0.030 ± 40%	µg/L
Ciprazina	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0050 ± 40 %	µg/L
Clodinafop propargyl	BS/0079-Organic Compounds by SBSE-MSMS	0.10	< 0.0010 ± 40%	µg/L
Clortaldimetil	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 35 %	µg/L
Clortoluron	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.010 ± 32%	µg/L
Diazinon	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Dieldrin	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 33 %	µg/L
Diflufenican	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.030 ± 40%	µg/L
Dimethenamide	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.03	< 0.030 ± 40%	µg/L
Diuron	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.03	< 0.010 ± 38%	µg/L
Endosulfan I	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0005 ± 40 %	µg/L
Endosulfan II	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0005 ± 40 %	µg/L
Endosulfan sulfate	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Endrin	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Flazasulfuron	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.030 ± 40%	µg/L
Fluroxypyr	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.030 ± 38%	µg/L
Glyphosate	A-BS-PE-0073 Derivatization-SPE ON LINE-HPLC-MS-MS	0.10	< 0.03 ± 37%	µg/L

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Sulfates	A-BV-PE-0001HPLC-Conductivity	250	< 1.0 ± 13.1%	mg/L
Metals				
Aluminium	A-D-PE-0026-1 Metals ICP-MS	200	6 ± 13%	µg/L
Antimony	A-D-PE-0026-1 Metals ICP-MS	10	1 ± 13%	µg/L
Arsenic	A-D-PE-0026-1 Metals ICP-MS	10	< 2 ± 12%	µg/L
Boron	A-D-PE-0026-1 Metals ICP-MS	1.5	0.038 ± 13%	mg/L
Cadmium	A-D-PE-0026-1 Metals ICP-MS	5.0	< 1 ± 12%	µg/L
Chromium	A-D-PE-0026-1 Metals ICP-MS	50	< 2 ± 12%	µg/L
Copper	A-D-PE-0026-1 Metals ICP-MS	2	< 0.002 ± 12%	mg/L
Iron	A-D-PE-0026-1 Metals ICP-MS	200	< 10 ± 12%	µg/L
Lead	A-D-PE-0026-1 Metals ICP-MS	10	< 1 ± 12%	µg/L
Manganese	A-D-PE-0026-1 Metals ICP-MS	50	< 2 ± 12%	µg/L
Mercury	A-D-PE-0026-1 Metals ICP-MS	1.0	< 0.20 ± 13%	µg/L
Nickel	A-D-PE-0026-1 Metals ICP-MS	20	< 2 ± 12%	µg/L
Selenium	A-D-PE-0026-1 Metals ICP-MS	20	< 2 ± 12%	µg/L
Uranium	A-D-PE-0026-1 Metals ICP-MS	30	< 2 ± 12%	µg/L
Volatile Organic Compounds				
1,2-Dichloroethane	A-BV-PE-0012 P&T-GC-MS	3.0	< 0.5 ± 27.1 %	µg/L
Sum of 5 haloacetic acids	BS/108 HALOACETICS HPLC-MS	60	13.6 ± 40 %	µg/L
Bromoacetic acid	BS/108 HALOACETICS HPLC-MS		< 5.00 ± 30 %	µg/L
Chloroacetic acid	BS/108 HALOACETICS HPLC-MS		< 10.000 ± 30 %	µg/L
Dibromoacetic acid	BS/108 HALOACETICS HPLC-MS		< 5.00 ± 30 %	µg/L
Dichloroacetic acid	BS/108 HALOACETICS HPLC-MS		< 10.000 ± 30 %	µg/L
Trichloroacetic acid	BS/108 HALOACETICS HPLC-MS		13.62 ± 30 %	µg/L
Sum of Trichloroethene and Tetrachloroethene	A-BV-PE-0012 P&T-GC-MS	10	< 1.0	µg/L
Tetrachloroethene	A-BV-PE-0012 P&T-GC-MS		< 0.5 ± 27.3 %	µg/L
Trichloroethene	A-BV-PE-0012 P&T-GC-MS		< 0.5 ± 27.8 %	µg/L
Trihalomethanes				
Sum of Trihalomethanes	A-BV-PE-0012 P&T-GC-MS	100	< 2.0	µg/L
Bromodichloromethane	A-BV-PE-0012 P&T-GC-MS		< 0.5 ± 27.3 %	µg/L
Bromoform	A-BV-PE-0012 P&T-GC-MS		< 0.5 ± 27.4 %	µg/L
Chloroform	A-BV-PE-0012 P&T-GC-MS		< 0.5 ± 26.8 %	µg/L
Dibromochloromethane	A-BV-PE-0012 P&T-GC-MS		< 0.5 ± 27.7 %	µg/L
BTEXs				
Benzene	A-BV-PE-0015 P&T GC-MS	1	< 0.2 ± 24%	µg/L
Polycyclic aromatic hydrocarbons				
Benzo[a]pyrene	BS/0079-Organic Compounds by SBSE-MSMS	0.010	< 0.0001 ± 40 %	µg/L
Sum of 4 Polycyclic Aromatic Hydrocarbons	BS/0079-Organic Compounds by SBSE-MSMS	0.10	< 0.001 ± 37 %	µg/L
Benzo[b]fluoranthene	BS/0079-Organic Compounds by SBSE-MSMS		< 0.0001 ± 40 %	µg/L
Benzo[ghi]perylene	BS/0079-Organic Compounds by SBSE-MSMS		< 0.0005 ± 40 %	µg/L
Benzo[k]fluoranthene	BS/0079-Organic Compounds by SBSE-MSMS		< 0.0001 ± 40 %	µg/L

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Heptachlor	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Heptachlor epoxide	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Hexachlorobenzene	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Lindane	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Linuron	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.03	< 0.030 ± 40%	µg/L
MCPA	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.030 ± 35%	µg/L
Metamitrone	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.030 ± 37%	µg/L
Metolaclor	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Metribuzina	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.030 ± 33%	µg/L
Metsulfuron methyl	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.030 ± 30%	µg/L
o,p'-DDT	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0005 ± 40 %	µg/L
Oxifluorfen	BS/0079-Organic Compounds by SBSE-MSMS	0.10	< 0.0010 ± 40 %	µg/L
p,p'-DDD	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
p,p'-DDE	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
p,p'-DDT	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Pendimethalin	BS/0079-Organic Compounds by SBSE-MSMS	0.10	< 0.0010 ± 40 %	µg/L
Prometryn	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.03	< 0.030 ± 40%	µg/L
Propazine	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.03	< 0.010 ± 36%	µg/L
Quizalofop-p-ethyl	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.030 ± 32%	µg/L
Simazine	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.03	< 0.010 ± 32%	µg/L
Terbuthylazine	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.010 ± 32%	µg/L
Terbutryn	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40%	µg/L
Tetradifón	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 35 %	µg/L
Tribenuron methyl	A-BS-PE-0049 Direct Injection HPLC-MS-MS	0.10	< 0.030 ± 30 %	µg/L
Trifluralin	BS/0079-Organic Compounds by SBSE-MSMS	0.03	< 0.0010 ± 40 %	µg/L
Semi-volatile organic compounds				
Bisphenol A	A-BS-PE-0055 Derivation-SBSE-TD-GC-MS	2.5	< 0.02 ± 40 %	µg/L
Sum of 4 perfluorinated	A-BS-PE-0081 Direct Injection HPLC-MS-MS	0.1	< 0.03 ± 30 %	µg/L

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Perfluorohexane sulfonic acid (PFHxS)	A-BS-PE-0081 Direct Injection HPLC-MS-MS	0.07	< 0.005 ± 34%	µg/L
Perfluorononanoic acid (PFNA)	A-BS-PE-0081 Direct Injection HPLC-MS-MS	0.07	< 0.005 ± 35%	µg/L
Perfluorooctane sulfonic acid (PFOS)	A-BS-PE-0081 Direct Injection HPLC-MS-MS	0.07	< 0.010 ± 35%	µg/L
Perfluorooctanoic acid (PFOA)	A-BS-PE-0081 Direct Injection HPLC-MS-MS	0.07	< 0.005 ± 34%	µg/L
Treatment and specs. product				
Acrylamide	A-BS-PE-0086 Direct injection HPLC-MS-MS	0.10	< 0.03 ± 38%	µg/L
Epichlorhydrin	A-BV-PE-0063 PyT-GC-MS	0.10	< 0.03 ± 26 %	µg/L
Vinyl chloride	A-BV-PE-0063 PyT-GC-MS	0.50	< 0.1 ± 25.4%	µg/L
Microbiolological Constituents				
Clostridium perfringens	UNE-EN ISO 14189:2017	0	0	u.f.c./100 mL
Coliform bacteria	UNE-EN ISO 9308-1:2014/A1:2017	0	0	u.f.c./100 mL
Enterococci	UNE-EN ISO 7899-2:2000	0	0	u.f.c./100 mL
Escherichia coli	UNE-EN ISO 9308-1:2014/A1:2017	0	0	u.f.c./100 mL
Somatic coliphages	UNE-EN ISO 10705-2	0	0	u.f.p./100mL
Total heterotrophic counts at 22ºC	ISO 6222:1999	100	0	u.f.c./mL

OBSERVATIONS

El procedimiento de siembra empleado en el ensayo UNE-EN ISO 10705-2 es el 11.2 (procedimiento normalizado), tras una etapa de concentración de la muestra mediante filtración.

Microbiology results: from 1-2 ufc is interpreted as organism present and from 3-9 cfu as estimate counts.
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