



BRACHI TESTING SERVICES

BRACHI TESTING SERVICES
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RAPPORTO DI PROVA N° : 00006671/20

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DITTA PRESENTATRICE:	TINTORIA FIORDILUCE SRL VIA DEL MOLINUZZO 10B/C 59100 PRATO
CAMPIONE:	Liquid named STYLE: A) ACQUE DI INGRESSO (INCOMING) B) ACQUE DI SCARICO (WASTE WATER)
CAMPIONAMENTO:	According to WWG of ZDHC
DATA RICEVIMENTO	March 16, 2020
DATA ESECUZIONE PROVE	From March 05 to April 07, 2020
OGGETTO:	Various Analysis

RISULTATI DI LABORATORIO



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**IL DIRETTORE
P.I. Primo Brachi**



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*DETERMINATION OF HEAVY METALS TOTAL CONTENT

Process:

Test method: based on ISO 11885 and EPA 200
Internal Method Microwave acid digestion followed by ICP-MS determination

Results:

SAMPLE "A"

Heavy metal		Results (mg/l)	Reporting limit (mg/l)
Ag	Silver	ND	0,0005
As	Arsenic	ND	0,0005
Cd	Cadmium	ND	0,0005
Cr	Total Chrome	0.0370	0,0005
Co	Cobalt	ND	0,0005
Cu	Copper	0.0101	0,0005
Hg	Mercury	0.0005	0,0005
Ni	Nickel	0.0720	0,0005
Pb	Lead	0.0006	0,0005
Sb	Antimonium	ND	0,0005
Zn	Zinc	0.0382	0,0005

SAMPLE "B"

Heavy metal		Results (mg/l)	Reporting limit (mg/l)
Ag	Silver	ND	0,0005
As	Arsenic	0.0006	0,0005
Cd	Cadmium	ND	0,0005
Cr	Total Chrome	0.1123	0,0005
Co	Cobalt	ND	0,0005
Cu	Copper	0.0117	0,0005
Hg	Mercury	0.0006	0,0005
Ni	Nickel	0.0628	0,0005
Pb	Lead	0.0017	0,0005
Sb	Antimonium	0.0009	0,0005
Zn	Zinc	0.3323	0,0005

Note: N.D.= not detectable



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DETECTION OF ALLERGENIC AND CARCINOGENIC DYES

Method : DIN 54231:2005 (LC-MSMS)

Results:

SAMPLE "B"

Analyte	CAS	CI (Colour Index)	Results µg/l
Allergenic dyes			
Disperse Blue 7	3179-90-6	62500	N.D.
Disperse Blue 26	3860-63-7	63305	N.D.
Disperse Blue 35	12222-75-2 56524-77-7	63600	N.D.
Disperse Blue 102	12222-97-8	111945	N.D.
Disperse Blue 106	12223-01-7	111935	N.D.
Disperse Blue 124 ^a	61951-51-7	111938	N.D.
Disperse Red 1	2872-52-8	11110	N.D.
Disperse Red 11	2872-48-2	62015	N.D.
Disperse Red 17	3179-89-3	11210	N.D.

Disperse Orange 1	2581-69-3	11080	N.D.
Disperse Orange 3	730-40-5	11005	N.D.
Disperse Orange 37/59/76	13301-61-6	11132	N.D.
Disperse Yellow 1	119-15-3	10345	N.D.
Disperse Yellow 3	283240-8	11855	N.D.
Disperse Yellow 9	6373-73-5	10375	N.D.
Disperse Yellow 39	12236-29-2		N.D.
Disperse Yellow 49	54824-37-2		N.D.
Disperse Brown 1	23355-64-8	11152	N.D.

Carcinogenic dyes			
Disperse Blue 1	2475-45-8	64500	N.D.
Direct Blue 6	2602-46-2	22610	N.D.
Acid Red 26	3761-53-3	16150	N.D.
Basic Red 9	569-61-9	42500	N.D.
Direct Red 28	573-58-0	22120	N.D.
Disperse Orange 11	82-28-0	60700	N.D.
Basic Violet 14	632-99-5	42510	N.D.
Direct Black 38	1937-37-7	30235	N.D.
Disperse Blue 3	2475-46-9	61505	N.D.
Basic Blue 26	2580-56-5	44045	N.D.
Malachite Green	569-64-2, 2437-29-8, 10309-95-2		N.D.

Reporting limit = 50 µg/l

Note: N.D.= not detectable



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***DETERMINATION OF VOLATILE ORGANIC COMPOUND (VOC)
AND HALOGENATED SOLVENTS**

Method : ISO 11423/1 US EPA 8260B

Process : a defined volume of sample is maintained at 70°C for 30 minutes
and GC-MS headspace determination is subsequently performed.

Results :

SAMPLE "A"

Compounds	CAS	Reporting limit (µg/l)	Results (µg/l)
HALOGENATED SOLVENTS			
1,2-dichloroethane	107-06-2	1.0	N.D.
Dichloromethane	75-09-2	1.0	N.D.
Trichloroethylene	79-01-6	1.0	N.D.
Tetrachloroethylene	127-18-4	1.0	186,2
VOLATILE ORGANIC COMPOUNDS (VOC)			
Benzene	71-43-2	1.0	N.D.
Xylenes	1330-20-7	1.0	N.D.
o-cresole	95-48-7	1.0	N.D.
m-cresole	108-39-4	1.0	N.D.
p-cresole	106-44-5	1.0	N.D.

SAMPLE "B"

Compounds	CAS	Reporting limit (µg/l)	Results (µg/l)
HALOGENATED SOLVENTS			
1,2-dichloroethane	107-06-2	1.0	N.D.
Dichloromethane	75-09-2	1.0	N.D.
Trichloroethylene	79-01-6	1.0	N.D.
Tetrachloroethylene	127-18-4	1.0	162,7
VOLATILE ORGANIC COMPOUNDS (VOC)			
Benzene	71-43-2	1.0	N.D.
Xylenes	1330-20-7	1.0	N.D.
o-cresole	95-48-7	1.0	N.D.
m-cresole	108-39-4	1.0	N.D.
p-cresole	106-44-5	1.0	N.D.

Note: N.D.= not detectable

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*DETERMINATION OF POLYNUCLEAR(POLYCYCLIC) AROMATIC HYDROCARBONS(PAHs)

Process :

Test method : US EPA 8270

Extraction, filtration and gascromatographic determination with mass detector (GC-MSD)

Results:

SAMPLE "B"

Substances	CAS	Reporting limit (µg/l)	Results (µg/l)
Naphthalene	91-20-3	1.0	N.D.
Acenaphthylene	208-96-8	1.0	N.D.
Acenaphthene	83-32-9	1.0	N.D.
Fluorene	86-73-7	1.0	N.D.
Phenanthrene	85-01-8	1.0	N.D.
Anthracene	120-12-7	1.0	N.D.
Fluoranthene	206-44-0	1.0	N.D.
Pyrene	129-00-0	1.0	N.D.
Benzo[a]anthracene	56-55-3	1.0	N.D.
Chrysene	218-01-9	1.0	N.D.
Benzo[a]pyrene	50-32-8	1.0	N.D.
Benzo[e]pyrene	192-97-2	1.0	N.D.
Indeno[1,2,3-cd]pyrene	193-39-5	1.0	N.D.
Dibenzo[a,h]anthracene	53-70-3	1.0	N.D.
Benzo[g,h,i]perylene	191-24-2	1.0	N.D.
Benzo[b]fluoranthene	205-99-2	1.0	N.D.
Benzo[j]fluoranthene	205-82-3	1.0	N.D.
Benzo[k]fluoranthene	207-08-9	1.0	N.D.

N.D. = not detectable

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*DETERMINATION OF ORTHO-PHTALATES

Process:

Test Method: : based on ISO 18856

Method

Dichloromethane extraction, analysis with GC/MS

Results:

SAMPLE "B"

Substances	CAS	Reporting limit (µg/l)	Results (µg/l)
Dibutyl phthalate/ (DBP)	84-74-2	10	N.D.
Benzyl butyl phthalate/ (BBP)	85-68-7	10	N.D.
Di(2 ethylhexyl) phthalate/ (DEHP)	117-81-7	10	N.D.
Diethyl phthalate/ (DEP)	84-66-2	10	N.D.
Di-n-octyl phthalate/ (DnOP)	117-84-0	10	N.D.
Di-isononyl phthalate/ (DINP)	28553-12-0	10	N.D.
Di-isodecyl phthalate/(DIDP)	26761-40-0	10	N.D.
Di nonyl phthalate/ (DNP)	84-76-4	10	N.D.
Di-n-hexyl phthalate/ (DnHP)	84-75-3	10	N.D.
Di-isobutyl phthalate/ (DIBP)	84-69-5	10	N.D.
Di-n-propyl phthalate/ (DPRP)	131-16-8	10	N.D.
Di-(2-methoxyethyl)-phthalate/(DMEP)	117-82-8	10	N.D.
Di ciclohexyl phthalate/ (DCHP)	84-61-7	10	N.D.
Di-isoctyl phthalate/ (DIOP)	27554-26-3	10	N.D.
Di-C7-11-branched alkylphthalates/ (DHNUP)	68515-42-4	10	N.D.
Di-C6-8-branched alkylphthalates/ (DIHP)	71888-89-6	10	N.D.

Note: N.D.= not detectable



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* DETERMINATION OF FLAME RETARDANTS

Process:

Test Method: based on US EPA 8270 and ISO 22032

Results

SAMPLE "B"

Substances	CAS	Reporting limit (µg/l)	Results (µg/l)
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	5	N.D.
Decabromodiphenyl ether (DecaBDE)	1163-19-5	5	N.D.
Tris(2,3-dibromopropyl)phosphate (TRIS)	126-72-7	5	N.D.
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5	N.D.
Octabromodiphenyl ether (OctaBDE)	32536-52-0	5	N.D.
Bis(2,3-dibromopropyl)phosphate (BIS)	5412-25-9	5	N.D.
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	5	N.D.
Polybromobiphenyls (PBB)	59536-65-1	5	N.D.
Tetrabromobisphenol A (TBBPA)	79-94-7	5	N.D.
Hexabromocyclododecane (HBCDD)	3194-55-6	5	N.D.
2,2-bis(bromomethyl)-1,3-propane diolo (BBMP)	3296-90-0	5	N.D.
Tris(1,3-dichloro-i-propyl)phosphate (TDCP)	13674-87-8	5	N.D.
Short Chain Chlorinate Paraffins (C ₁₀₋₁₃ SCCP)	85535-84-8	5	N.D.

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ORGANOTIN COMPOUNDS DETERMINATION

Process.:

Method based on UNI EN ISO 17353: 2006

Process: derivatization with sodium tetraethyl borate and gaschromatographic determination with mass detector (GC-MSD).

Results :

SAMPLE "B"

Organotin Compounds	CAS	Reporting limit (µg/l)	Results (µg/l)
MMT (Monomethyl tin)	23001-26-5, 83221-98-1	0.01	N.D.
DMT (Dimethyl tin)	753-73-1	0.01	N.D.
TMT (Trimethyl tin)	1066-45-1, 17272-57-0	0.01	N.D.
MBT (Monobutyl tin)	1118-46-3	0.01	N.D.
DBT (Dibutyl tin)	683-18-1	0.01	N.D.
TBT (Tributyl tin)	1461-22-9	0.01	N.D.
MPhT (Monophenyl tin)	2406-68-0	0.01	N.D.
DPhT (Diphenyl tin)	1011-95-6, 6381-06-2	0.01	N.D.
TPhT (Triphenyl tin)	639-58-7	0.01	N.D.
MOT (Monoctyl tin)	3091-25-6	0.01	N.D.
DOT (Dioctyl tin)	3542-36-7	0.01	N.D.
TOT (Trioctyl tin)	2587-76-0	0.01	N.D.

Legenda: N.D.= not detectable

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*PERFLUORINATED AND POLYFLUORINATED CHEMICALS (PFCs)

=====

Process:

Test Method : reference method based on DIN 38407-42
2 hours extraction with methanol in ultrasonic bath
followed by filtration and LC-MS-MS analysis

Results:

SAMPLE "B"

Compound	CAS number	Reporting Limit (µg/l)	Results (µg/l)
Perfluorooctane sulphonate (PFOS)	1763-23-1	0.01	N.D.
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	N.D.
Perfluorobutane sulphonate (PFBS)	375-73-5	0.01	N.D.
Perfluorohexanoic acid (PFHxA)	307-24-4	0.01	N.D.
6:2 Fluorotelomer alcohol/1H,1H,2H,2H-Perfluoro-1-ottanolo (6:2 FTOH)	647-42-7	1.0	N.D.
8:2 Fluorotelomer alcohol/1H,1H,2H,2H-Perfluoro-1-decanolo (8:2 FTOH)	678-39-7	1.0	N.D.

Legenda: N.D.= not detectable

*CHLOROBENZENES AND CHLOROTOLUENES DETERMINATION

=====

Method: based on USEPA 8260B

Extraction with dichloromethane, and gaschromatographic analysis with mass detector (GC-MSD)

Legenda: N.D.= not detectable

Results:

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SAMPLE "A"

Compounds	CAS	Reporting Limit (µg/l)	Results (µg/l)
Chlorobenzene	108-90-7	0.2	N.D.
1,2-Dichlorobenzene	95-50-1	0.2	N.D.
1,3-Dichlorobenzene	541-73-1	0.2	N.D.
1,4-Dichlorobenzene	106-46-7	0.2	N.D.
1,2,3-Trichlorobenzene	87-61-6	0.2	N.D.
1,2,4-Trichlorobenzene	120-82-1	0.2	N.D.
1,3,5-Trichlorobenzene	108-70-3	0.2	N.D.
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	N.D.
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	N.D.
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	N.D.
Pentachlorobenzene	608-93-5	0.2	N.D.
Hexachlorobenzene	118-74-1	0.2	N.D.
2-Chlorotoluene	95-49-8	0.2	N.D.
3-Chlorotoluene	108-41-8	0.2	N.D.
4-Chlorotoluene	106-43-4	0.2	N.D.
2,3-Dichlorotoluene	32768-54-0	0.2	N.D.
2,4-Dichlorotoluene	95-73-8	0.2	N.D.
2,5-Dichlorotoluene	19398-61-9	0.2	N.D.
2,6-Dichlorotoluene	118-69-4	0.2	N.D.
3,4-Dichlorotoluene	95-75-0	0.2	N.D.
3,5-Dichlorotoluene	25186-47-4	0.2	N.D.
2,3,4-Trichlorotoluene	7359-72-0	0.2	N.D.
2,3,6-Trichlorotoluene	2077-46-5	0.2	N.D.
2,4,5-Trichlorotoluene	6639-30-1	0.2	N.D.
2,4,6-Trichlorotoluene	23749-65-7	0.2	N.D.
3,4,5-Trichlorotoluene	21472-86-6	0.2	N.D.
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	N.D.
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	N.D.
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	N.D.
Pentachlorotoluene	877-11-2	0.2	N.D.



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SAMPLE "B"

Compounds	CAS	Reporting Limit (µg/l)	Results (µg/l)
Chlorobenzene	108-90-7	0.2	N.D.
1,2-Dichlorobenzene	95-50-1	0.2	N.D.
1,3-Dichlorobenzene	541-73-1	0.2	0,3
1,4-Dichlorobenzene	106-46-7	0.2	N.D.
1,2,3-Trichlorobenzene	87-61-6	0.2	N.D.
1,2,4-Trichlorobenzene	120-82-1	0.2	N.D.
1,3,5-Trichlorobenzene	108-70-3	0.2	N.D.
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	N.D.
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	N.D.
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	N.D.
Pentachlorobenzene	608-93-5	0.2	N.D.
Hexachlorobenzene	118-74-1	0.2	N.D.
2-Chlorotoluene	95-49-8	0.2	N.D.
3-Chlorotoluene	108-41-8	0.2	N.D.
4-Chlorotoluene	106-43-4	0.2	N.D.
2,3-Dichlorotoluene	32768-54-0	0.2	N.D.
2,4-Dichlorotoluene	95-73-8	0.2	N.D.
2,5-Dichlorotoluene	19398-61-9	0.2	N.D.
2,6-Dichlorotoluene	118-69-4	0.2	N.D.
3,4-Dichlorotoluene	95-75-0	0.2	N.D.
3,5-Dichlorotoluene	25186-47-4	0.2	N.D.
2,3,4-Trichlorotoluene	7359-72-0	0.2	N.D.
2,3,6-Trichlorotoluene	2077-46-5	0.2	N.D.
2,4,5-Trichlorotoluene	6639-30-1	0.2	N.D.
2,4,6-Trichlorotoluene	23749-65-7	0.2	N.D.
3,4,5-Trichlorotoluene	21472-86-6	0.2	N.D.
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	N.D.
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	N.D.
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	N.D.
Pentachlorotoluene	877-11-2	0.2	N.D.

Legenda: N.D. = not detectable



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***DETERMINATION OF GLYCOLS – SHORT CHAIN DERIVATIVE OF ETHYLENE GLYCOL**

Process:

Test method: based on US EPA 8270
Liquid extraction and LC/MS analysis

Results:

SAMPLE "B"

Compound	CAS number	Reporting Limit (µg/l)	Results (µg/l)
Bis(2-methoxyethyl)ether	111-96-6	50	N.D.
2-ethoxyethanol	110-80-5	50	N.D.
2-ethoxyethyl acetate	111-15-9	50	N.D.
Ethyleneglycoldimethyl ether	110-71-4	50	N.D.
2-methoxy ethanol	109-86-4	50	N.D.
2-methoxyethyl acetate	110-49-6	50	N.D.
2-methoxypropyl acetate	70657-70-4	50	N.D.
Triethyleneglycol dimethyl ether	112-49-2	50	N.D.

Legenda: N.D.= not detectable

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***DETERMINATION OF ALKYL PHENOL ETHOXYLATES (APEOs)
AND ALKYLPHENOLS (APs)**

Process :
Method based on ISO 18254-1 and ISO 18857-2.

Results:

SAMPLE "B"

APEOs	CAS	Results µg/l
Nonylphenol polyethoxylates (NPEO)	68412-54-4, 9016-45-9, 127087-87-0, 37205-87-1, 26027-38-3	N.D.
Octylphenol polyethoxylates (OPEO)	9002-93-1, 68987-90-6, 9036-19-5	N.D.

Legenda: N.D.= not detectable
Reporting Limit: 5 µg/l

APs	CAS	µg/l
Nonylphenols / Nonil fenoli (NP) mixed isomers	84852-15-3, 25154-52-3, 104-40-5, 11066-49-2	N.D.
Octylphenols / Octil fenoli (OP) mixed isomers	140-66-9, 1806-26-4, 27193-28-8	N.D.

Legenda: N.D.= not detectable
Reporting Limit: 5 µg/l

**TEXTILES: METHODS FOR DETERMINATION OF CERTAIN AROMATIC AMMINES
DERIVED FROM AZO COLOURANTS. PART 1: DETECTION OF THE USE OF CERTAIN
AZO COLORANTS ACCESSIBLE WITH OR WITHOUT EXTRACTING THE FIBERS**

Procedure:

Reductive cleavage of the azo group with sodium dithionite in a citrate buffered aqueous solution (ph: 6; 70°C), spe purification, liquid-liquid extraction in terbutylmethylether phase. Gascromatographic quantitative determination with mass detector GC/MSD.

Method : EN 14362-1: 2017 - EN 14362-3:2017
Color of sample : wastewater

NOTE:

A) The use of certain azo colorants (Table 1) cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

I risultati enunciat si riferiscono unicamente ai campioni ricevuti e non alla partita che gli stessi rappresentano.

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B) The product from which the sample was taken may have been coloured with colorants whose structures contain the amines but not azo bound.

C) The product from which the sample was taken may have been coloured with an azo colorant whose structure does not contain preformed 4-methoxy-m-phenylenediamine but 2-amino-4-nitroanisole. In the course of the analytical procedure the azo colorant will release 2-amino-4-nitroanisole which in turn will form 4-methoxy-m-phenylenediamine.

D) Care should be taken that detected aromatic amines originate from azo colorants and not for other materials such as polyurethane.

Results:

SAMPLE "B"

AROMATIC AMINES	CAS	NOTE	REPORTING LIMIT (µg/l)	RESULTS (µg/l)
4-Amminobiphenyle	92-67-1	A,B	0,1	N.D.
Benzidine	92-87-5	-	0,1	N.D.
4-Chloro-O-Toluidine	95-69-2	-	0,1	N.D.
2-Naphthylamine	91-59-8	A,B	0,1	N.D.
p-Chloroaniline	106-47-8	-	0,1	N.D.
2,4-Diaminoanisole	615-05-4	A,C	0,1	N.D.
4,4'-Diaminodiphenylmethane	101-77-9	D	0,1	N.D.
3,3'-Dichlorobenzidine	91-94-1	-	0,1	N.D.
3,3'-Dimethoxybenzidine	119-90-4	-	0,1	N.D.
3,3'-Dimethylbenzidine	119-93-7	-	0,1	N.D.
3,3'-Dimethyl-4,4' Diamino-diphenylmethane	838-88-0	D	0,1	N.D.
P-Cresidine	120-71-8	-	0,1	N.D.
4,4'-Methylene-bis(2-Chloroaniline)	101-14-4	-	0,1	N.D.
4,4' Oxydianiline	101-80-4	-	0,1	N.D.
4,4' Thiodianiline	139-65-1	-	0,1	N.D.
o-Toluidine	95-53-4	-	0,1	N.D.
o-Aminoazotoluene (a)	97-56-3	-	0,1	N.D.
5 Nitro-o-Toluidina (a)	99-55-8	-	0,1	N.D.
2,4-Toluidendiamine	95-80-7	-	0,1	N.D.
4 Aminoazobenzene (b)	60-09-3	-	0,1	N.D.
2,4,5-Trimetilanalina	137-17-7	-	0,1	N.D.
o-Anisidine	90-04-0	-	0,1	N.D.

	CAS	DETECTED	NOT DETECTED
Aniline	62-53-3		x
1,4- Phenylendiamine	106-50-3		x

Legenda : ND : not detectable

Note: (a) the CAS number 97-56-3 and 99-55-8 are further reduced to CAS number 95-53-4 and 95-80-7.

(b) azo colorant that are able to form 4-aminoazobenzene, generate under the condition of this method aniline (CAS 62-53-3) and 1-4-phenylenediamine (CAS 106-50-3). Due to detection limits, only aniline may be detected. the presence of these colorants should be tested by EN 14362-3 (textiles)



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* CHLOROPHENOLS DETERMINATION

Process:

Test Method : based on US EPA 8270D

Procedure : Extraction in alkaline solution, acetylation, extraction with solvent and Gascromatografic analysis.

Results:

SAMPLE "B"

Substances	CAS	Reporting limit (µg/l)	Results (µg/l)
2-Chlorophenol	95-57-8	0.5	N.D.
3-Chlorophenol	108-43-0	0.5	N.D.
4-Chlorophenol	106-48-9	0.5	N.D.
2,3-Dichlorophenol	576-24-9	0.5	N.D.
2,4-Dichlorophenol	120-83-2	0.5	N.D.
2,5-Dichlorophenol	583-78-8	0.5	N.D.
2,6-Dichlorophenol	87-65-0	0.5	N.D.
3,4-Dichlorophenol	95-77-2	0.5	N.D.
3,5-Dichlorophenol	591-35-5	0.5	N.D.
2,3,4-Trichlorophenol	15950-66-0	0.5	N.D.
2,3,5-Trichlorophenol	933-78-8	0.5	N.D.
2,3,6-Trichlorophenol	933-75-5	0.5	N.D.
2,4,6-Trichlorophenol	88-06-02	0.5	N.D.
3,4,5-Trichlorophenol	609-19-8	0.5	N.D.
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	N.D.
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	N.D.
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	N.D.
Pentachlorophenol	87-86-5	0.5	N.D.

Legenda : N.D. = not detectable



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*Cr (VI) HEXAVALENT CHROMIUM

=====

Process:

Test Method : according to USEPA 218.6, ISO 18412

Instruments :LC-ICP –MS

Results:

SAMPLE "B"

wastewater : n.d.

Legenda: N.D.= not detectable

Reporting Limit: 0,001 mg/l

§ DETERMINATION OF CONVENTIONAL PARAMETER IN WATER

=====

Results :

Sample : **SAMPLE B**

Start date and time : 20/03/2020

Sampling by : According to WWG of ZDHC

Parameter Test Method	u.m.	results	LOQ
Total coliforms count APAT CNR IRSA 7010 C Man 29 2003	UFC/100 ml	<1	3
Total suspended solid APAT CNR IRSA 2090 B Man 29 2003	mg/l	520	2
Chemical request for oxygen (COD) ISO 15705:2002	mg/l	670	10
Total nitrogen (N) APAT CNR IRSA 4060 Man 29 2003	mg/l	30.2	0.5
pH APAT CNR IRSA 2060 Man 29 2003	Unit pH	8.95	--
Color UNI EN ISO 7887:2011-B			--
Color 436 mm	m ⁻¹	55	2
Color 525 mm	m ⁻¹	33	1
Color 620 mm	m ⁻¹	23	1
Biochemical request for oxygen (BOD5) APHA Standard Methods for the Examination of water and wastewater, ed. 23 rd 2017 5210B	mg/l	385	1
Ammoniacal nitrogen APAT CNR IRSA 4030 A2 Man 29 2003	mg/l	4.2	0.04

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Parameter Test Method	u.m.	results	LOQ
Total Phosphorus APAT CNR IRSA 4110 A2 Man 29 2003	mg/l	7.8	0.1
Organohalogenated Sum	mg/l	<0.1	0.1
Fat and oil animal and vegetable APAT CNR IRSA 5160 A1+A2 Man 29 2003	mg/l	<0.5	0.5
Phenol EPA 3510C 1996+EPA 8270E 2018	mg/l	<0.001	0.001
Persistent FOAM		present not persistent	--
Total Cyanides APAT CNR IRSA 4070 Man 29 2003	mg/l	<0.01	0.01
Sulfides APAT CNR IRSA 4160 Man 29 2003	mg/l	0.288	0.01
Sulfites APAT CNR IRSA 4150 A Man 29 2003	mg/l	2.81	0.1

Legenda:

LOQ: quantification limit

§: test in subcontract

Prato, 08 April 2020

P.I. Primo Brachi
Direttore



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