

RAPPORTO DI PROVA N°:
Test Report N°.

003635/22

DITTA PRESENTATRICE:
Applicant:

**GRUPPO COLLE SRL, VIA G. DI VITTORIO 3/5- USELLA -
CANTAGALLO**

DESCRIZIONE CAMPIONE (fornita dal cliente):
Sample description (made by customer) :

Liquid named STYLE
SAMPLE A : ACQUE INGRESSO (IN)
SAMPLE B: ACQUE DI SCARICO (OUT) WASTE WATER

CAMPIONAMENTO:
Sampling:

According to WWG of ZDHC
Sampler certificate n. 8F146501303

DATA RICEVIMENTO:
Date of Receipt:

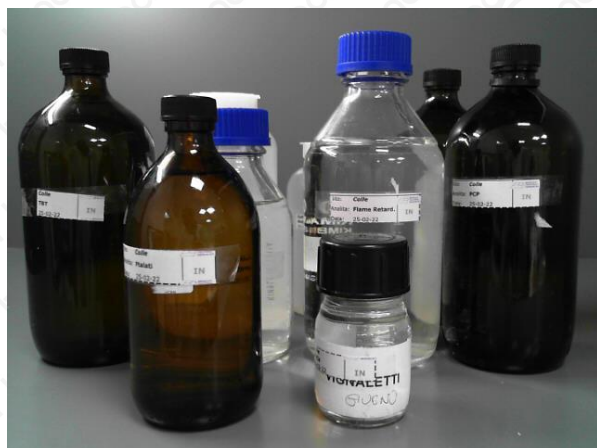
25 Febbraio 2022
February 25, 2022

DATA ESECUZIONE PROVE:
Test execution date:

Dalla data di ricevimento alla data di emissione
From the date of receipt to the date of issue

RISULTATI DI LABORATORIO

TEST RESULTS

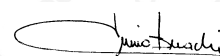


A



B

IL DIRETTORE
P.I. Primo Brachi



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LAB N. 0224 L

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CR1-IT-01/21

***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:

Heavy metal		Results (mg/l) Sample A	Results (mg/l) Sample B	Reporting limit (mg/l)
Ag	Silver	N.D.	N.D.	0,0005
As	Arsenic	N.D.	0,0008	0,0005
Cd	Cadmium	N.D.	N.D.	0,0005
Cr	Total Chrome	0,0031	0,2176	0,0005
Co	Cobalt	N.D.	N.D.	0,0005
Cu	Copper	0,0146	0,0047	0,0005
Hg	Mercury	N.D.	N.D.	0,0005
Ni	Nickel	0,0009	0,0014	0,0005
Pb	Lead	0,0570	0,0024	0,0005
Sb	Antimonium	N.D.	N.D.	0,0005
Zn	Zinc	0,0428	0,2559	0,0005

Note: N.D.= not detectable

***Cr (VI) HEXAVALENT CHROMIUM**

Process:

Test Method : according to USEPA 218.6, ISO 18412 :2005

Instruments :LC-ICP –MS

Results:

Sample A
Sample B

Raw wastewater : N.D.

N.D.

Legenda: N.D.= not detectable

Reporting Limit: 0,001 mg/l

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DETECTION OF ALLERGENIC AND CARCINOGENIC DYES

Method : DIN 54231:2005 (LC-MSMS)

Results:

Analyte	CAS	CI (Colour Index)	Results µg/l SAMPLE B
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 : US EPA 8260D:2017

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

Results :

Compounds	CAS	Reporting limit (µg/l)	Results (µg/l) A	Results (µg/l) B
HALOGENATED SOLVENTS				
1,2-dichloroethane	107-06-2	1.0	N.D.	N.D.
Dichloromethane	75-09-2	1.0	364,7	216,0
Trichloroethylene	79-01-6	1.0	N.D.	N.D.
Tetrachloroethylene	127-18-4	1.0	N.D.	N.D.
VOLATILE ORGANIC COMPOUNDS (VOC)				
Benzene	71-43-2	1.0	N.D.	N.D.
Xylenes	1330-20-7	1.0	N.D.	N.D.
o-cresole	95-48-7	1.0	N.D.	N.D.
m-cresole	108-39-4	1.0	N.D.	N.D.
p-cresole	106-44-5	1.0	N.D.	N.D.

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

Process :

Test method : US EPA 8270D:2014

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

Results:

Substances	CAS	Reporting limit (µg/l)	Results (µg/l) Sample B
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-PHTHALATES**

Process:

Test Method: : based on ISO 18856:2004

Method

Dichlorometane extraction, analysis with GC/MS

Results:

Substances	CAS	Reporting limit (µg/l)	Results (µg/l) Sample B
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-isooctyl 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.

N.D.= not detectable

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* DETERMINATION OF FLAME RETARDANTS

Process:

Test Method: based on US EPA 8270D:2014 and ISO 22032

Results

Substances	CAS	Reporting limit (µg/l)	Results (µg/l) Sample B
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.

Note: N.D.= not detectable

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ORGANOTIN COMPOUNDS DETERMINATION

Process.:

Method

UNI EN ISO 17353: 2006

Process: derivatization with sodium tetraethylborate and gascromatographic determination with mass detector (GC-MSD).

Results :

Organotin Compounds	CAS	Reporting limit (µg/l)	Results (µg/l) Sample B
BuT (Monobutyl tin)	1118-46-3	0.01	N.D.
MOT (Monooctyl tin)	3091-25-6	0.01	N.D.
DBT (Dibutyl tin)	683-18-1	0.01	N.D.
DOT (Dioctyl tin)	3542-36-7	0.01	N.D.
TBT (Tributyl tin)	1461-22-9	0.01	N.D.
TPhT (Triphenyl tin)	639-58-7	0.01	N.D.
DPhT (Diphenyl tin)	1011-95-6, 6381-06-2	0.01	N.D.
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.
MPhT (Monophenyl tin)	2406-68-0	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 POLYFLOURINATED CHEMICALS (PFCs)**

Process:

Test Method : reference method based on DIN 38407-42:2011
2 hours extraction with methanol in ultrasonic bath
followed by filtration and LC-MS-MS analysis

Results:

Compound	CAS number	Reporting Limit (µg/l)	Results (µg/l) SAMPLE B
Perfluorooctane sulphonate (PFOS)	1763-23-1	0.1	N.D.
Perfluorooctanoic acid (PFOA)	335-67-1	0.1	N.D.
Perfluorobutane sulphonate (PFBS)	375-73-5	0.1	N.D.
Perfluorohexanoic acid (PFHxA)	307-24-4	0.1	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

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***CHLOROBENZENES AND CHLOROTOLUENES DETERMINATION**

Method: based on USEPA 8260B:1996

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

Results:

Compounds	CAS	Reporting Limit (µg/l)	Results (µg/l) Sample B
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.

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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

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

Process:

Test method: based on US EPA 8270:2014
Liquid extraction and LC/MS analysis

Results:

Compound	CAS number	Reporting Limit (µg/l)	Results (µg/l) SAMPLE B
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.

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Legenda: N.D. = not detectable

* CHLOROPHENOLS DETERMINATION

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Process:

Test Method : based on US EPA 8270D :2014

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

Results:

Substances	CAS	Reporting limit (µg/l)	Results (µg/l) Sample B
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.

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Legenda : N.D.= not detectable

***DETERMINATION OF ETHOXYLATED ALKYLPHENOLS (APEOs)**

Process:

Test Method :ISO 18857-2:2009 and ISO 18254-1

:Extraction with methanol for 60 min at 70°C in ultrasonic bath, filtration and liquid chromatography determination with mass detector (LC/MS/MS)

Results:

APEOs	CAS	Results µg/l Sample A	Results µg/l Sample B
Nonylphenol polyethoxylates (NPEO)	68412-54-4, 9016-45-9, 127087-87-0, 37205-87-1, 26027-38-3	N.D.	4,3
Octylphenol polyethoxylates (OPEO)	9002-93-1, 68987-90-6, 9036-19-5	N.D.	N.D.
APs	CAS	µg/l	µg/l
Nonylphenols / Nonil fenoli (NP) mixed isomers	84852-15-3, 25154-52-3, 104-40-5, 11066-49-2	N.D.	N.D.
Octylphenols / Octil fenoli (OP) mixed isomers	140-66-9, 1806-26-4, 27193-28-8	N.D.	N.D.

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

TEXTILES: METHODS FOR DETERMINATION OF CERTAIN AROMATIC AMINES DERIVED FROM AZO COLORANTS. PART 1: DETECTION OF THE USE OF CERTAIN AZO COLORANTS ACCESSIBLE WITH OR WITHOUT EXTRACTING THE FIBRES

Test method: EN 14362-1: 2017 - EN 14362-3:2017

Procedure:

Reductive cleavage of the azo group with sodium dithionite in a citrate buffered aqueous solution (pH 6,0; 70°C), spe purification, liquid-liquid extraction in Tertbutylmethylether phase. Gaschromatographic quantitative determination with mass detector GC/MSD.

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.

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.

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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	DETECTION LIMIT (µg/l)	RESULTS (ppm)
4 - Aminobiphenyl	92-67-1	A,B	1	N.D.
Benzidine	92-87-5	-	1	N.D.
4 - Chloro - o - Toluidine	95-69-2	-	1	N.D.
2 - Naphthylamine	91-59-8	A,B	1	N.D.
o - Aminoazotoluene (a)	97-56-3	-	1	N.D.
5 - Nitro-o-toluidine (a)	99-55-8	A,C	1	N.D.
p - Chloroaniline	106-47-8	-	1	N.D.
2,4 - Diaminoaniline	615-05-4	-	1	N.D.
4,4' - Diaminodiphenylmethane	101-77-9	-	1	N.D.
3,3' - Dichlorobenzidine	91-94-1	-	1	N.D.
3,3' - Dimethoxybenzidine	119-90-4	-	1	N.D.
3,3' - Dimethylbenzidine	119-93-7	-	1	N.D.
3,3' - Dimethyl-4,4' - Diaminodiphenylmethane	838-88-0	-	1	N.D.
p-Cresidine	120-71-8	-	1	N.D.
4,4' - Methylene-bis-(2-chloroaniline)	101-14-4	-	1	N.D.
4,4' - Oxydianiline	101-80-4	-	1	N.D.
4,4' - Thiodianiline	139-65-1	C	1	N.D.
o - Toluidine	95-53-4	-	1	N.D.
2,4 - Toluenediamine	95-80-7	B,D	1	N.D.
2,4,5 - Trimethylaniline	137-17-7	-	1	N.D.
o - Anisidine	90-04-0	-	1	N.D.
4 - Aminoazobenzene (b)	60-09-3	-	1	N.D.

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2,4- Xylidine	95-68-1	-	1	N.D.
2,6 -Xylidine	87-62-7	-	1	N.D.
Legend: ND= not detectable, lower than dection limit				
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 colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline (CAS 62-53-3) and 1-4-phenyldiamine (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).				



A)



B)

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RAPPORTO DI PROVA N° - TEST REPORT N° : 003635/22

Prato, March 21 2022

P.I. Primo Brachi
Direttore



END OF TEST REPORT



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