

Test result IONIC

BACTERIA	IONIC upstream	IONIC downstream
Colonies count at 30°C (CFU / mc)	1.000.000	460.000
Enterobacteriaceae count at 37°C (CFU - mc)	< 1	< 1
Yeast count (CFU / mc)	< 1	< 1
Mildews count (CFU / mc)	< 1	< 1
DUSTS		
Respirable fraction dust (respirable particles) (mg / mc)	0,32	0,26
Total dust (inhalable particles) (mg / mc)	0,76	0,43

IONIC bacteria test efficiency	54,00%
IONIC respirable dust efficiency	18,75%
IONIC inhalable dust efficiency	43,42%



IONIC BACTERIA

TEST REPORT No. 20SA19923

of 13/07/2020

Page 1 of 2

То

BROFER S.r.I.

Via Roma, 66 31023 RESANA (TV)

Client: BROFER S.r.I.

Sample received on: 02/07/2020

Sampling made by: SAVI LABORATORI & Service Srl - Mr. Toschi

Sample description

Sample description: IONIC UPSTREAM
Origin: Factory Via Roma, 66 - Resana (TV)

Taken on 02/07/2020 between 12: 01pm and 1:01pm.

Environmental conditions

Parameters	Unit of measurement	VALUE	Analysis date
Atmospheric temperature MP 662 rev 0 2014	°C	28.5	03/07
Atmospheric pressure MP 662 rev 0 2014	mbar	1011	03/07
Atmospheric humidity MP 662 rev 0 2014	%	61	03/07

Results of the analytical tests

Parameters / Tests	Units of measurement	VALUE	ExpandedUnc.	L 2 - L 1	Analysis date start - end	Mass flow
Colony count at 30°C (MP 666 rev 0 2014)	cfu/m3	1.0E6			03/07 06/07	
Enterobacteriaceae counts (at 37°C) (ISO 18593:2018+ISO 21528-2:2017)	cfu/m3	< 1			03/07 04/07	
Yeast cell count (ISO 18593:2018+ISO 21527-1/2:2008)	cfu/m3	< 1			03/07 08/07	
Mould counts (ISO 18593:2018+ISO 21527-1/2:2008)	cfu/m3	< 1			03/07 08/07	

REFERENCE LIMITS: Threshold limit values: (L1) ACGIH 2020 (TWA); (L2) Legislative Decree 81/2008 and subsequent amendments- Annex 38, 43

Deviations, additions or exclusions from sampling procedure, test methods, test and environmental conditions: Nothing relevant.

KEY:

DM:Dry matter

TM:Internal test method

(-):Not determinable



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Deputy for the Head of Chemical Testing Dr. Armando Vicari Board of chemists of Mantua

Registration no. A 232

Head of microbiological testing

Dr. Ilenia Zangrossi

National Board of Biologists

Registration no. 051626 Sect. A

Deputy for the Head of the Laboratory

Dr. Mosè Mozzarelli Board of chemists of Mantua Registration no. A 224



IONIC BACTERIA

TEST REPORT No. 20SA19924

of 14/07/2020

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Client: BROFER S.r.I.

Sample received on: 02/07/2020

Sampling made by: SAVI LABORATORI & Service Srl - Mr. Toschi

Sample description

Sample description: IONIC DOWNSTREAM Origin: Factory Via Roma, 66 - Resana (TV)

Taken on 02/07/2020 between 12: 01pm and 1:01pm.

Environmental conditions

Parameters	Unit of measurement	VALUE	Analysis date
Atmospheric temperature MP 662 rev 0 2014	°C	28.4	03/07
Atmospheric pressure MP 662 rev 0 2014	mbar	1011	03/07
Atmospheric humidity MP 662 rev 0 2014	%	61	03/07

Results of the analytical tests

Parameters / Tests	Units of measurement	VALUE	ExpandedUnc.	L 2 - L 1	Analys start - c		Mass flow
Colony count at 30°C (MP 666 rev 0 2014)	cfu/m3	4.6E5			03/07	06/07	
Enterobacteriaceae counts (at 37°C) (ISO 18593:2018+ISO 21528-2:2017)	cfu/m3	< 1			03/07	04/07	
Yeast cell count (ISO 18593:2018+ISO 21527-1/2:2008)	cfu/m3	< 1			03/07	08/07	
Mould counts (ISO 18593:2018+ISO 21527-1/2:2008)	cfu/m3	< 1			03/07	08/07	

REFERENCE LIMITS:Threshold limit values:(L1) ACGIH 2020 (TWA); (L2) Legislative Decree 81/2008 and subsequent amendments- Annex 38, 43

Deviations, additions or exclusions from sampling procedure, test methods, test and environmental conditions: Nothing relevant.

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DM:Dry matter

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Head of microbiological testing

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IONIC DUSTS

TEST REPORT No. 20SA19921

of 14/07/2020

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Sample description

Sample description: IONIC UPSTREAM
Origin: Factory Via Roma, 66 - Resana (TV)

Taken on 02/07/2020 between 12: 00pm and 1:00pm.

Environmental conditions

Parameters	Unit of measurement	VALUE	Analysis date
Atmospheric temperature * MP 662 rev 0 2014	°C	28.4	03/07
Atmospheric pressure * MP 662 rev 0 2014	mbar	1011	03/07
Atmospheric humidity * MP 662 rev 0 2014	%	62	03/07

Results of the analytical tests

Parameters / Tests	Units of measurement	VALUE	ExpandedUnc.	L 2 - L 1	Analysis date start - end	Mass flow
Dust respirable fraction (respirable particles) (NIOSH 0600 1998)	mg/m3	0.32	± 0.13	3	03/07 10/07	
Total dust (inhalable particles) (NIOSH 0500 1994)	mg/m3	0.76	± 0.33	10	03/07 10/07	

REFERENCE LIMITS:Threshold limit values:(L1) ACGIH 2020 (TWA); (L2) Legislative Decree 81/2008 and subsequent amendments- Annex 38, 43

Deviations, additions or exclusions from sampling procedure, test methods, test and environmental conditions: Nothing relevant.

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(*):Test not accredited by ACCREDIA







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Dr. Mosè Mozzarelli Board of chemists of Mantua Registration no. A 224







IONIC DUSTS

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Sampling made by: SAVI LABORATORI & Service Srl - Mr. Toschi

Sample description

Sample description: IONIC DOWNSTREAM
Origin: Factory Via Roma, 66 - Resana (TV)

Taken on 02/07/2020 between 12: 00pm and 1:00pm.

Environmental conditions

Parameters	Unit of measurement	VALUE	Analysis date
Atmospheric temperature * MP 662 rev 0 2014	°C	28.0	03/07
Atmospheric pressure * MP 662 rev 0 2014	mbar	1011	03/07
Atmospheric humidity * MP 662 rev 0 2014	%	62	03/07

Results of the analytical tests

Parameters / Tests	Units of measurement	VALUE ExpandedUnc.	L 2 - L 1	Analysis date start - end	Mass flow
Dust respirable fraction (respirable particles) (NIOSH 0600 1998)	mg/m3	0.26 ± 0.11	3	03/07 10/07	
Total dust (inhalable particles) (NIOSH 0500 1994)	mg/m3	0.43 ± 0.19	10	03/07 10/07	

REFERENCE LIMITS:Threshold limit values:(L1) ACGIH 2020 (TWA); (L2) Legislative Decree 81/2008 and subsequent amendments- Annex 38, 43

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KEY:

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