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Test report

In-use preliminary test

Measurement of antibacterial activity on plastic surfaces

Test object:

Plasma generator on PVC test specimens

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Examination report ISO 22196 (Mod)

Customer: Aerocom GmbH & Co.
Address: Adam-Riese-Straße 16
73529 Schwäbisch Gmünd

Order number: 3703

Test object: Plasma generator on PVC test specimens against *Escherichia coli* DSM3423 JM109

Sample description: Plastic discs made from PVC pipes

Sample receipt date: 19.06.2020

Type or Tests: In-use preliminary test

Test germ: *Escherichia coli* DSM3423 JM109

Test laboratory: QualityLabs BT GmbH

Address: Neumeyerstraße 46a
90411 Nürnberg

Sample material: PVC

Page number report: 7

Investigation report to the customer: **Place and date of creation:** Nuremberg, July 13, 2020
Recipient: Aerocom GmbH & Co.

Laboratory management: _____
Dr. Gopala Mannala, Technical
Manager QualityLabs BT GmbH

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Test results

Sample label		to [Cells]			Reduction [%]	Log Reduction
1	Zero-samples	3,5 x 10 ⁴	2,3 x 10 ⁴	1,7 x 10 ⁴	-	Zero-sample
2	Irradiated samples 1 run	7,0 x 10 ³	9,5 x 10 ³	3,8 x 10 ²	87,77	0,91
3	Irradiated Samples 2 runs	4,6 x 10 ³	6,5 x 10 ³	8,5 x 10 ³	73,53	0,58
4	Irradiated Samples 3 runs	< 1.0 x 10 ¹	< 1.0 x 10 ¹	3,8 x 10 ¹	99,99	>4

Test Strain:	<i>Escherichia coli</i> DSM3423 JM109
Initial bacterial count in the inoculum	1,0 x 10⁵ / ml
Editor's name abbreviation	CG
Measurement ended on	13.07.2020

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Notes on specimens

NONE

Measurement-based interpretation of the results

After an irradiation time of 3 runs of the plasma generator, an antimicrobial effectiveness of >99.9% was achieved.

Editor: Ms Görgey _____

Cross-checked: Mr Shendi _____

References

ISO 22196-07: Plastics — Measurement of antibacterial activity on plastic surfaces