

Certificate of Analysis

Customer: CLEAF S.P.A.
Via Bottego 15
20851 Lissone MB
Italia

Certificate Number: 90/CLE 0002
Date of testing: 25 08 2015

Test Method: Determination of Antibacterial Activity using Test Based on ISO22196: 2011

Sample	Test Bacterium	Number of bacteria		Red ⁿ against Initial		Red ⁿ against Control	
		0 Hrs	24 Hrs	Log ₁₀	%	Log ₁₀	%
CLEAF S.P.A., Italy. Antibacterial melamine surface treated with BioCote additive B65003	MRSA	1.75E +05	<11.11	>4.19	>99.99%	>3.88	>99.98%
	<i>E.coli</i>	1.50E +05	<11.11	4.13	>99.99%	>4.22	>99.99%
Control. Non- antibacterial melamine surface sample	MRSA	1.75E +05	8.5E +04	>0.31	>51.42%	N/A	N/A
	<i>E.coli</i>	1.50E +05	1.86E +05	-0.09	Growth	N/A	N/A

MRSA – Methicillin resistant *Staphylococcus aureus*

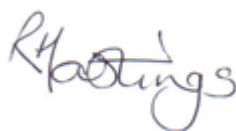
NA – not applicable

All samples included in this Certificate of Analysis were artificially aged prior to testing by continuous exposure to 85°C dry heat for 10 days. The parameter of 'Reduction (of test bacteria) against Control' allows the antibacterial activity of treated melamine surface to be attributed to the presence of the active ingredient (Ag⁺).

STATEMENT OF EFFICACY LONGEVITY: The Ag⁺ additive will continue to provide a highly efficacious antibacterial property to the treated melamine surface for a period of product usage of greater than five (5) years as determined by the extensive artificial aging of the melamine surface samples prior to testing.



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