





LAB N° 1165

Test report n°: 17LA05087 of 28/03/2017

Spett. Parx Plastics Europe BV Westblaak 189 3012KJ Rotterdam ()

Sample Information

Test subject: Polymers

Description: PEU-PE0014/LOT: MI16091901/C:10026 - E.coli

Registration date: 22/03/2017

Date of arrival: 22/03/2017 Hour of arrival: 11.30.00

Date analysis commenced: 22/03/2017 Date analysis completed: 27/03/2017

Sampling data Date: 21/03/2017

Sample supplied by: client

Transport: client

Parameter - Note Method - Note	U.M.	Result Note	LoQ
Determination of antibacterial activity (R) - R=(Ut-Uo)-(At-Uo) ISO 22196:2011		3,1 Reduction of 99.923%	0.6
Size of test specimens (H x L)	mm	50x50	
Thickness of test specimens	mm	0,1	
Type of polymer used for the cover film		Polipropilene	
Size of the cover film (H x L)	mm	40x40	
Thickness of the cover film	mm	0,10	
Type of Gram-negative strain		E.coli - ATCC 25922	
Volume of test inoculum	ml	0,4	
Number of viable bacteria in the test inoculum	n°	200000	
\mbox{Uo} - \mbox{N}° of viable bacteria recovered from the untreated test specimens after	log	4,1	0.4
Ut - N° of viable bacteria recovered from the untreated test specimens after 24	log	5,3	0.4
At - Count bacteria recovered from the treated samples 24 hours post	log	2,1	0.4

The analytical results are exclusively referred to the sample.

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Laboratory management system certified UNI EN ISO 9001: 2008 by CSQA with the No. 14270. Inclusion in the list of regional laboratories carrying out analysis in the context of self-control procedures for Food Industries No. 52. Recommended by AIC for the analysis of quantification of gluten in food matrices. Registrated laboratory for the analysis of food contact materials intended for export to Japan.







LAB N° 1165

follows Test report no: 17LA05087 of 28/03/2017

17LA05087/01 S.Aureus			
Parameter - Note Method - Note	U.M.	Result Note	LoQ
Determination of antibacterial activity (R) - R=(Ut-Uo)-(At-Uo) ISO 22196:2011		2,0 Reduction of 98.845%	0.6
Size of test specimens (H x L)	mm	50x50	
Thickness of test specimens	mm	0,1	
Type of polymer used for the cover film		Polipropilene	
Size of the cover film (H x L)	mm	40x40	
Thickness of the cover film	mm	0,10	
Type of Gram-positive strain		S.aureus - ATCC 25923	
Volume of test inoculum	ml	0,4	
Number of viable bacteria in the test inoculum	n°	290000	
Uo - N° of viable bacteria recovered from the untreated test specimens after	log	4,3	0.4
Ut - N° of viable bacteria recovered from the untreated test specimens after 24	log	3,9	0.4
At - Count bacteria recovered from the treated samples 24 hours post	log	1,9	0.4

LEGEND: **U.M.** = Unit of measurement; **(Sup)** = upper limit; **(Inf)** = Lower Limit;; **x** ÷ **y** = acceptable range; **LoQ** = limit of quantification, the threshold value below which you choose not to bring any numerical result for the parameter in question; this limit is provided directly by the method, or is chosen on the basis of the experimental detection limits (LoQ or LoD) so as not to be changed over time or according to the chemical-physical or microbiological single sample; **LOD** = limit of detection; **NQ** = unquantifiable, indicates a value less than LoQ

"<x" or ">x" respectively indicate a value lower or higher than the measuring range of the test

UNLESS OTHERWISE SPECIFIED: Quantitative microbiological tests are performed on single replica and two consecutive dilutions in accordance with UNI EN ISO 7218: 2013 (with the exception of the analysis of water and MPN); the results of this test report are not correct for recovery factors (R) as the values of recovery are in the tolerance specified in the test method; summations are calculated using the criterion of the lower bound (LB)

The results marked in red indicate a exceeding the defined limits.

If the sampling isn't the responsibility of 3ALaboratori Ltd., the test results were obtained on the basis of the data declared.

Technical Director

Dr. Giovanni Mitaritonna Chemist Ordine Interprov. Chimici del Veneto - Padova nº 910 SEZ. A

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