

# Certificate of Analysis

## Client

E&O Laboratories Ltd  
Burnhouse  
Bonnybridge  
Scotland  
FK4 2HH



E&O Laboratories Ltd

**Sample:** PP0051 - Bacillus Cereus (PEMBA)  
**Batch Number:** 04167259  
**Expiry Date:** 2023-11-06  
**Date Received:** 2023-08-29  
**Date Tested:** 2023-08-29  
**Date of Issue:** 2023-09-01  
**Sample Condition:** Satisfactory  
**Sample Number:** 453392

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The RGI is a calculation of the % growth on the test media compared with the growth on a control media. The test medium must achieve an RGI between 70-120% for non-selective media /  $\geq 50\%$  for selective media.

Accredited Test Method: ED/SOP/008 Quantitative evaluation using spread inoculum technique (solid media)

Productivity	RGI (%)	Colonial Appearance	Colonial Appearance Specification
Bacillus subtilis NCTC 10400	104	Yellow colonies	Yellow colonies
Bacillus cereus NCTC 10320	95	Turquoise/blue colonies with zone of egg yolk precipitate of the same colour	Turquoise/blue colonies with zone of egg yolk precipitate of the same colour

Accredited Test Method: ED/SOP/051 - log reduction of inoculum using drop inoculum for selective agar and fluid media. Inhibition indicates selectivity factor  $\geq 2$ .

Selectivity	Test Result	Specification
Escherichia coli NCTC 12241	Inhibited	Inhibited

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Physical	Result	Specifications	Accredited Test Method
Sterility	Conforms	Within acceptable limits	ED/SOP/005 Visual check and growth assessment following incubation for 3 days at 15-25°C and 37°C
Sterility sampling is performed in accordance with ISO 2859-1:1999*. The inspection level is $\geq 0.4\%$ of the batch and the reject level $\leq 7$ units depending on batch size.			
pH	7.1	7.2 +/- 0.2	ED/SOP/003 measurement by pH meter
Colour	Conforms	390C Yellow-Green	ED/SOP/009 by visual observation. Range measured using Pantone® 4 colour process guide
Fill Quantity	Conforms	18-22ml	ED/SOP/054 by gravimetric determination
Moisture	Conforms	95% +/- 3%	ED/SOP/053 with drying and gravimetric determination

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All of the results on this certificate of analysis relate only to the samples submitted.

Test specifications are based on ISO 11133:2014/Amd/:2020 and internal product specifications

\*Sterility sampling is outwith scope of accreditation.



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**Douglas Cameron**  
Technical Manager, E&O Laboratories Ltd