

Certificate of Analysis

Client

E&O Laboratories Ltd
Burnhouse
Bonnybridge
Scotland
FK4 2HH



E&O Laboratories Ltd

Sample: PP0051 - Bacillus Cereus (PEMBA)
Batch Number: 04164034
Expiry Date: 2023-03-22
Date Received: 2023-01-12
Date Tested: 2023-01-12
Date of Issue: 2023-01-19
Sample Condition: Satisfactory
Sample Number: 439189

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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	103	Yellow colonies	Yellow colonies
Bacillus cereus NCTC 10320	88	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 ≥ 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 ≤ 7 units depending on batch size.			
pH	7.3	7.2 +/- 0.2	ED/SOP/003 measurement by pH meter
Colour	Conforms	303-2 - 310-3 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
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