

Certificate of Analysis

Client

E&O Laboratories Ltd
Burnhouse
Bonnybridge
Scotland
FK4 2HH



E&O Laboratories Ltd

Sample: PP7021 - Colorex Listeria (ISO)
Batch Number: 04160235
Expiry Date: 2022-06-06
Date Received: 2022-04-11
Date Tested: 2022-04-11
Date of Issue: 2022-04-15
Sample Condition: Satisfactory
Sample Number: 422738

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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 |
|--------------------------------------|---------|--------------------------------|-----------------------------------|
| Listeria innocua NCTC 11288 | 89 | Blue colonies with NO halo | Blue colonies with NO halo |
| Listeria monocytogenes NCTC 11994 | 95 | Blue colonies with opaque halo | Blue colonies with opaque halo |

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 |
|---------------------------------------|-------------|---------------|
| Enterococcus faecalis NCTC 12697 | Inhibited | Inhibited |
| Saccharomyces cerevisiae NCPF 3178 | Inhibited | Inhibited |
| 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 | 7.0 | 7.2 +/- 0.2 | ED/SOP/003 measurement by pH meter |
| Colour | Conforms | 6-6 - 7-6 Pale Cream | 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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