

# Certificate of Analysis

## Client

E&O Laboratories Ltd  
Burnhouse  
Bonnybridge  
Scotland  
FK4 2HH



E&O Laboratories Ltd

**Sample:** BM0647 - Fraser Broth (Half-Strength)  
**Batch Number:** 04105538  
**Expiry Date:** 2024-03-05  
**Date Received:** 2023-09-06  
**Date Tested:** 2023-09-06  
**Date of Issue:** 2023-09-12  
**Sample Condition:** Satisfactory  
**Sample Number:** 453847

Burnhouse, Bonnybridge  
Scotland, FK4 2HH  
Telephone: 01324 840404  
Fax: 01324 841314  
Email: info@eolabs.com

### Accredited Test Method: See table below

Productivity	Result	Colonial Appearance	Colonial Appearance Specification
Listeria monocytogenes NCTC 7973	Growth	Blue colonies with opaque halo	Blue colonies with opaque halo
Listeria monocytogenes NCTC 11994	Growth	Blue colonies with opaque halo	Blue colonies with opaque halo

For solid media 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. For liquid media growth is determined from a subculture of the test broth inoculated with 10 - 100 cfu of the target organism.

### 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
Enterococcus faecalis NCTC 12697	Inhibited	Inhibited

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	7.2	7.2 +/- 0.2	ED/SOP/003 measurement by pH meter

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Colour	Conforms	110 C 131 Yellow Straw	ED/SOP/009 by visual observation. Range measured using Pantone® 4 colour process guide
Fill Quantity	Conforms	5000ml +/- 0.3	ED/SOP/054 by gravimetric determination

**Accredited Test Method for Solid Media**  
ED/SOP/008 Quantitative evaluation using spread inoculum technique

**Accredited Test Method for Liquid Media**  
ED/SOP/008 Semi quantitative inoculation with growth assessment from subculture

**Accredited Test Method for Diluents**  
ED/SOP/008 Semi quantitative evaluation of viability maintenance after a holding time of 45 minutes

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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