

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: 04088572
Expiry Date: 2021-05-13
Date Received: 2020-11-13
Date Tested: 2020-11-13
Sample Condition: Satisfactory
Sample Number: 390630

Burnhouse, Bonnybridge
Scotland, FK4 2HH
Telephone: 01324 840404
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Accredited Test Method: See table below

Productivity	Result	Colonial Appearance	Colonial Appearance Specification
Listeria monocytogenes NCTC 11994	Growth	Grey colonies with dark halo	Grey colonies with dark 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 ≥ 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 ≤ 7 units depending on batch size.			
pH	7.3	7.2 +/- 0.2	ED/SOP/003 measurement by pH meter
Colour	Conforms	6-1 - 28-1 Yellow	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

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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.



Douglas Cameron
Technical Manager, E&O Laboratories Ltd