

Certificate of Analysis

Client

E&O Laboratories Ltd
Burnhouse
Bonnybridge
Scotland
FK4 2HH



Sample: BM0082 - Buffered Peptone Water(ISO)
Batch Number: 04086055
Expiry Date: 2021-07-13
Date Received: 2020-07-14
Date Tested: 2020-07-14
Sample Condition: Satisfactory
Sample Number: 382486

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

Accredited Test Method: See table below

| Productivity | Result | Colonial Appearance | Colonial Appearance Specification |
|--------------------------------------|--------|---------------------|-----------------------------------|
| Salmonella typhimurium NCTC 12023 | Growth | Yellow colonies | Yellow colonies |
| Staphylococcus aureus NCTC 12981 | Growth | Pink colonies | Pink colonies |
| Escherichia coli NCTC 12241 | Growth | Red colonies | Red colonies |

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.

The log difference between inocula pre and post a 45 minute retention in the diluent should be ≤ 0.3 .

Accredited Test Method: See table below

| Productivity | Result | Specification |
|--------------------------------------|----------|---------------|
| Escherichia coli NCTC 12241 | Conforms | ≤ 0.3 |
| Listeria monocytogenes NCTC 11994 | Conforms | ≤ 0.3 |
| Staphylococcus aureus NCTC 12981 | Conforms | ≤ 0.3 |

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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 | 7.1 | 7.0 +/- 0.2 | ED/SOP/003 measurement by pH meter |
| Colour | Conforms | 1-2 - 6-8 Pale Straw | ED/SOP/009 by visual observation. Range measured using Pantone® 4 colour process guide |
| Fill Quantity | Conforms | 1000ml +/- 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.



Douglas Cameron
Technical Manager, E&O Diagnostics Ltd