

# Certificate of Analysis

## Client

E&O Laboratories Ltd  
Burnhouse  
Bonnybridge  
Scotland  
FK4 2HH



E&O Laboratories Ltd

**Sample:** BM2200 - MMGM (SS)  
**Batch Number:** 04096686  
**Expiry Date:** 2022-04-18  
**Date Received:** 2021-10-19  
**Date Tested:** 2021-10-19  
**Date of Issue:** 2021-10-22  
**Sample Condition:** Satisfactory  
**Sample Number:** 411191

Burnhouse, Bonnybridge  
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Telephone: 01324 840404  
Fax: 01324 841314  
Email: info@eolabs.com

### Accredited Test Method: See table below

| Productivity                         | Result | Colonial Appearance                                                                               | Colonial Appearance Specification                                                                 |
|--------------------------------------|--------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Pseudomonas aeruginosa<br>NCTC 12903 | Growth | Broth: Acid production = -ve (Purple)<br>Gas production = -ve MacConkey plate:<br>Yellow colonies | Broth: Acid production = -ve (Purple)<br>Gas production = -ve MacConkey plate:<br>Yellow colonies |
| Enterobacter aerogenes<br>NCTC 10006 | Growth | Broth: Acid production = +ve (Yellow)<br>Gas production = -ve MacConkey plate:<br>Red colonies    | Broth: Acid production = +ve (Yellow)<br>Gas production = -ve MacConkey plate:<br>Red colonies    |
| Escherichia coli<br>NCTC 12241       | Growth | Broth: Acid production = +ve (Yellow)<br>Gas production = +ve MacConkey plate:<br>Red colonies    | Broth: Acid production = +ve (Yellow)<br>Gas production = +ve MacConkey plate:<br>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.

### 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 |
|-------------------------------------|-------------|---------------|
| Enterococcus faecalis<br>NCTC 12697 | 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 $\leq 7$ units depending on batch size. |          |                          |                                                                                                   |
| pH                                                                                                                                                                                  | 6.9      | 6.7 +/- 0.2              | ED/SOP/003 measurement by pH meter                                                                |
| Colour                                                                                                                                                                              | Conforms | Purple                   | ED/SOP/009 by visual observation. Range measured using Pantone® 4 colour process guide            |
| Fill Quantity                                                                                                                                                                       | Conforms | 10ml +/- 0.3             | ED/SOP/054 by gravimetric determination                                                           |

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| Accredited Test Method for Solid Media                             | Accredited Test Method for Liquid Media                                         | Accredited Test Method for Diluents                                                                 |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| ED/SOP/008 Quantitative evaluation using spread inoculum technique | ED/SOP/008 Semi quantitative inoculation with growth assessment from subculture | 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