

Certificate of Analysis

Client

E&O Laboratories Ltd
Burnhouse
Bonnybridge
Scotland
FK4 2HH



E&O Laboratories Ltd

Sample: BM2200 - MMGM (SS)
Batch Number: 04102424
Expiry Date: 2023-06-13
Date Received: 2022-12-14
Date Tested: 2022-12-14
Date of Issue: 2022-12-19
Sample Condition: Satisfactory
Sample Number: 437928

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
Pseudomonas aeruginosa NCTC 12903	Growth	Broth: Acid production = -ve (Purple) Gas production = -ve MacConkey plate: Yellow colonies	Broth: Acid production = -ve (Purple) Gas production = -ve MacConkey plate: Yellow colonies
Enterobacter aerogenes NCTC 10006	Growth	Broth: Acid production = +ve (Yellow) Gas production = -ve MacConkey plate: Red colonies	Broth: Acid production = +ve (Yellow) Gas production = -ve MacConkey plate: Red colonies
Escherichia coli NCTC 12241	Growth	Broth: Acid production = +ve (Yellow) Gas production = +ve MacConkey plate: Red colonies	Broth: Acid production = +ve (Yellow) Gas production = +ve MacConkey plate: 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 ≥ 2 .

Selectivity	Test Result	Specification
Enterococcus faecalis 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 ≤ 7 units depending on batch size.			
pH	6.8	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.



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Douglas Cameron
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