# MICROBIOLOGICAL MEDIA
# QUALITY PERFORMANCE REPORT # 23078

**Test Media:** *E. coli* / Coliform Count Plate

**Brand:** 3M Petrifilm™ **Batch No. / Expiry Date:** 418323060A/2024-08-29

**Reference Media:** Standard Plate Count (SPC) Agar

**Brand:** Oxoid **Batch No. / Expiry Date:** 3569103 / Oct 2027

**Date Tested**: 10 May 2023 **Project No:** 23-129370-1A

## BATCH PERFORMANCE CERTIFICATE

### Qualitative Analysis

| Test Organism | Observed Growth |
|---|---|
| *Staphylococcus aureus* NZRM 87 | No Growth |
| *Escherichia coli* NZRM 916 | Positive (*E. coli*) |
| *Enterococcus faecalis* NZRM 1106 | No Growth |
| *Pseudomonas aeruginosa* NZRM 918 | Negative |
| *Enterobacter cloacae* NZRM 2375 | Positive (*Coliform*) |
| Blank | No Growth |

Positive: Typical growth as described by method.

Negative: Growth not described as typical.

No Growth: No visible colonies observed.

Method: Direct inoculation i.e. 1ml of a diluted overnight culture was used to inoculate the test media.

Blank: 5 plates inoculated with 1ml sterile diluent.

Incubation Conditions: Aerobic 35°C/24 hours

### Quantitative Analysis

| - | Test Organism | |
|---|---|---|
| - | *Escherichia coli* NZRM 916 | - |
| Ave. No. Colonies 3M Petrifilm | 86.2 | - |
| Ave. No. Colonies SPC | 94.0 | - |
| % Difference | -8.3 % | - |

Quantitative analysis compares the recovery rate of the test media to a reference media.

Calculation: The percentage difference =

$$\frac{[\text{Ave. No. of Test Media Colonies} \times 100]}{\text{Ave. No. of Reference Media Colonies}} - 100$$

Method: In House

Incubation Conditions: Aerobic 35°C/24 hours

**Quantitative Interpretation:** The media performance is considered acceptable if the percentage difference between the test and non-selective reference media does not exceed ±30%.

**Qualitative Interpretation:** The media performance is considered acceptable if both positive growth of the target organism(s) and negative or no growth of non-target organism(s) is expressed.

The above criteria are testing laboratory In-house limits, which have been endorsed by 3M as a report interpretation guideline.

Results apply to samples of the Batch as received by the laboratory.

Authorised by: Michele

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Scientific Analyst

Report Date: 17 May 2023

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