thermoscientific

# Product Specification Sheet

*Legionella BCYE Medium with Antibiotics*

Intended Usage: A medium for the isolation of *Legionellaceae*.

For professional use only.

| | **PO5325A** |
|---|---|
| Version: 05 | Revision Date: 28 May 2020 |

# Thermo Scientific™ Legionella BCYE Medium with Antibiotics

| | |
|---|---|
| Form of Product | Poured plate |
| Storage | 2 – 12°C |
| Filling weight | 20 g ± 5 % |
| Packaging | 10 plates wrapped in film |
| pH | 6.8 ± 0.2 |
| Appearance | Traffic black to jet black, opaque |
| Shelf life | 8 weeks |
| Intended Usage | A selective medium for the isolation of *Legionellaceae*.<br>For professional use only. |
| Technique | Depends on the different methods.<br>For information see ISO11731:2017. |

| Typical formulation* | g/l |
|---|---|
| Activated charcoal | 2.0 |
| Yeast extract | 10.0 |
| ACES buffer | 10.0 |
| Potassium hydroxide | 2.8 |
| Iron (III) pyrophosphate | 0.25 |
| L-cysteine hydrochloride | 0.4 |
| α-Ketoglutarate | 1.0 |
| Pimaricin | 0.07 |
| Polymyxin B | 80 000 IU |
| Cefazolin | 0.009 |
| Agar | 13.0 |

*Adjusted as required to meet performance standards.

## Quality Control

1. Control for general characteristics, labelling and printing.

2. Contamination check
   ≥ 72 h @ 20 – 25 °C, aerobic
   ≥ 72 h @ 30 – 35 °C, aerobic

3. Microbiological control

| Positive Controls | Growth |
|---|---|
| **Inoculum 50 – 120 colony forming units (cfu)**<br>**Incubation conditions: 72 – 96 h @ 36 ± 1°C, humid atmosphere**<br>**Strains tested by membrane filtration method** | |
| *Legionella pneumophila* ATCC® 33152™ (WDCM 00107) | Grey-blue colonies. |
| *Legionella anisa* ATCC® 35292™ (WDCM 00106) | Grey-blue colonies. |
| **Inoculum 50 – 120 cfu, quantitative**<br>**Incubation conditions: 72 – 96 h @ 36 ± 1°C, humid atmosphere** | |
| *Legionella pneumophila* ATCC® 33152™ (WDCM 00107) | 2 – 6 mm, grey-blue colonies. |
| *Legionella anisa* ATCC® 35292™ (WDCM 00106) | 2 – 4 mm, grey-blue colonies. |
| Colony counts shall be ≥ 50% of the control medium BCYE. | |

| Negative Control | Growth |
|---|---|
| **Inoculum ≥$10^4$ cfu, quantitative, control medium TSA**<br>**Incubation conditions: 72 – 96 h @ 36 ± 1°C, humid atmosphere** | |
| *Escherichia coli* ATCC® 8739™ (WDCM 00012) | Total or partial inhibition (≤ 100 cfu). |

Tested in accordance with the methods in ISO 11133.
The formulation of this medium conforms to ISO 11731:2017.

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