



## TECHNICAL DATA SHEET

**DESCRIPTION** PLATE COUNT AGAR (PCA), BOTTLED

**SGL PRODUCT CODE** 9065

A medium used for the determination of the total aerobic colony count of mesophilic and psychrotrophic bacteria in food, feed and other sample types.

The medium complies with standard methods ISO 17410:2001, ISO 4833-1&2:2013, APHA (American Public Health Association), AOAC (Association of Official Analytical Chemists) & FDA Bacteriological Analytical Manual

### FORMULATION

Typical product composition\*:

| COMPONENT                  | WEIGHT / VOLUME                          |
|----------------------------|--|
| Enzymatic digest of casein | 5.0 g                                    |
| Yeast extract              | 2.5 g                                    |
| Dextrose                   | 1.0 g                                    |
| Agar                       | 15.0 g (9-18g depending on gel strength) |
| Purified water             | 1000 ml                                  |

\*Product may be adjusted and/or supplemented to meet performance criteria

### QUALITY CONTROL SPECIFICATION

| PHYSICAL TESTS | SPECIFICATION CRITERIA     |
|----------------|----------------------------|
| Appearance     | Translucent pale beige gel |
| pH at 20-25°C  | 7.0 ± 0.3                  |

| STERILITY TESTS                  | SPECIFICATION CRITERIA |
|----------------------------------|------------------------|
| Incubation at 22-25°C for 5 days | No growth detected     |
| Incubation at 35-37°C for 5 days | No growth detected     |
| Incubation at 42-45°C for 5 days | No growth detected     |

| GROWTH PROMOTION / INHIBITION TESTS   | SPECIFICATION CRITERIA  |
|---|---|
| <i>Bacillus subtilis</i> ATCC 6633 NCTC 10400<br>NMT 100 CFU inoculum             | ≥70% CFU recovery compared to control at 35-37°C incubation after not more than 1 day |
| <i>Escherichia coli</i> ATCC 8739 NCTC 12923<br>NCIB 8545<br>NMT 100 CFU inoculum | ≥70% CFU recovery compared to control at 35-37°C incubation after not more than 1 day |
| <i>Pseudomonas aeruginosa</i> ATCC 27853<br>NCTC 12934<br>NMT 100 CFU inoculum    | ≥70% CFU recovery compared to control at 35-37°C incubation after not more than 1 day |
| <i>Staphylococcus aureus</i> ATCC 25923 NCTC 12981<br>NMT 100 CFU inoculum        | ≥70% CFU recovery compared to control at 35-37°C incubation after not more than 1 day |

NMT = Not more than

NLT = Not less than

CFU = Colony forming units

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Additional specification testing may be performed as requested by the customer.

Manufactured in compliance with ISO 9001 (Ref No FM37824) and tested in accordance with ISO 11133 by a UKAS (ISO 17025) accredited laboratory (Ref No. 4356).