

## OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

## AGAR TECHNICAL (AGAR NO. 3) LP0013

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LP0013

**Description**

A technical grade agar which conforms to the specifications of the U.S. Pharmacopoeia and A.P.H.A. Suitable for applications where clarity and compatibility are not of prime importance. It is of high gel strength and will give a firm gel 1.2% w/v.

**Technical Information**

## Average Batch Analysis:

|                          |                    |
|--------------------------|--------------------|
| Appearance               | Cream/white powder |
| Colour on reconstitution | White              |
| pH (25°C)                | 6.0-7.5            |
| Clarity                  | Faintly opalescent |
| Loss on drying           | Less than 7.0%     |
| Ash                      | Less than 3.2%     |
| Ca                       | 1500 - 4000ppm     |
| Mg                       | 350 - 900ppm       |
| SO <sub>4</sub>          | Less than 2.0%     |
| Salmonella               | Absent / 25g       |
| Working Strength         | 1.2%               |

**Microbiological Characteristics**

The following tests are carried out:-

**Freedom from Toxic Substances**

| Medium                               | Organism                                   | Control<br>Inoculum | Incubation        | Result         |
|--------------------------------------|--|---------------------|-------------------|----------------|
| Nutrient Broth<br>No2 + 1.5%<br>Agar | <i>Staphylococcus aureus</i><br>ATCC®9144  | 10-100 CFU          | 37°C for 18 hours | Cream colonies |
|                                      | <i>Enterococcus faecalis</i><br>ATCC®29212 | 10-100 CFU          | 37°C for 18 hours | Cream colonies |

**Detection of Heat Resistant Bacteria (Thermophiles and Mesophiles)**

| Test         | Medium                            | Incubation        | Result |
|--------------|-----------------------------------|-------------------|--------|
| Thermophiles | Nutrient Broth<br>No2 + 1.2% Agar | 55°C for 72 hours | Absent |
| Mesophiles   | Nutrient Broth<br>No2 + 1.2% Agar | 37°C for 72 hours | Absent |

**OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION****AGAR TECHNICAL (AGAR NO. 3) LP0013****Revision History**

| Section / Step        | Description of Change                         | Reason for Change    | Reference   |
|-----------------------|---|----------------------|-------------|
| Entire Document       | Update to new format                          | Update to new format | BT-SOP-7767 |
| Technical information | Addition of appearance, colour clarity and pH | Change control       | BT-CC-1889  |