

**PRODUCT CODE: 453799**

## **Plate Count Agar (Prepared Plate(@ 90 mm)) for microbiology**

### **Specification**

Medium for aerobic plate counts by the surface inoculation method (standard Plate Count Agar) according to ISO 4833, 8552 & 17410 Standards and IFU No. 6.

### **Presentation**

<b>20 Prepared Plates</b>	<b>Packaging Details</b>	<b>Shelf life</b>	<b>Storage</b>
90 mm with: 21 ± 1 ml.	1 box with 2 packs of 10 plates/pack. Single cellophane.	3.5 months	2-14°C

### **Description and Technique**

#### *Description*

The Plate Count Agar formulation is according to that of Buchbinder et al. as recommended in their study of media for the plate count of microorganisms.

The original formulation of the standardized agar for dairy microbiology has been modified in order to avoid the addition of milk. This new composition allows the growth of most microorganisms without any further additions.

This medium's formulation is equivalent to that described by the 'Standard Methods for the Examination of Dairy products', the USP's 'Tryptone Glucose Yeast Agar', the 'Deutsche Landwirtschaft' and to the APHA and AOAC's Plate Count Agar. This is the medium of choice for the plate count of any type of sample.

#### *Technique*

The incubation time and temperature depend on the type of microorganism under study. For a general aerobic count, incubate for 3 days at 30°C.

Taking readings after 24, 48 and 72 hours.

After incubation, enumerate all the colonies that have appeared onto the surface of the agar. Each laboratory must evaluate the results according to their specifications.

**Quality control**

Physical/Chemical control	Microbiological control	Sterility control
Color: Yellowish. pH: $7 \pm 0.2$ at 25°C.	Inoculate: Practical range 100±20 CFU; Min. 50 CFU (Productivity).  Microbiological control according to ISO 11133:2014  Aerobiosis. Incubation at $30 \pm 1^\circ\text{C}$ , reading at 24-48-72h.	Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH  Check at 7 days after incubation in same conditions.

Microorganism	Growth
<i>Bacillus subtilis</i> ATCC® 6633, WDCM 00003	Good ( $\geq 70\%$ )
<i>L. monocytogenes</i> ATCC® 35152, WDCM 00109	Good ( $\geq 70\%$ )
<i>Escherichia coli</i> ATCC® 8739, WDCM 00012	Good ( $\geq 70\%$ )
<i>Sph. aureus</i> ATCC® 25923, WDCM 00034	Good ( $\geq 70\%$ )

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