

Technical Data Sheet

China-blue Lactose Agar

GranuCult®, Elective culture medium for differentiating between lactose-positive and lactose-negative microorganisms and for determination of the microbial count in milk (BRANDL and SOBECK-SKAL 1963).

1023480500

Mode of Action

This culture medium is free from inhibitors and contains lactose as a reactant. Degradation of lactose to acid is indicated by a color change of the pH indicator, China blue, from colorless to blue.

Typical Composition (g/L)

China-blue Lactose Agar	
Meat extract	3.0
Peptone from casein	5.0
Sodium chloride	5.0
Lactose	10.0
China blue	0.375
Agar-agar**	12.0

**Agar-agar is equivalent to other different terms of agar.

Preparation

Suspend 35.5 g/liter, autoclave (15 minutes at 121 °C).

pH: 7.2 ± 0.2 at 25 °C.

The plates are clear and pale blue.

Experimental Procedure and Evaluation

Inoculate the culture medium by the streaking or pour-plate methods. The method employed depends on the purpose for which the medium is used.

Incubation: 24 - 48 hours at 35 °C aerobically

Appearance of Colonies	Microorganisms
Blue	Lactose-positive: example <i>E. coli</i> , coliform bacteria, <i>Staphylococci</i> , <i>Streptococci</i> , and others
Colorless	Lactose-negative: example <i>Salmonella</i> , <i>Serratia</i> , <i>Proteus</i> , and others

Storage

Store at 15 °C to 25 °C, dry and tightly closed. Do not use clumped or discolored medium. Protect from UV light (including sunlight). For *in vitro* use only.

Quality Control

Control strains	Growth	Color change to blue:
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	good to very good	+
<i>Proteus mirabilis</i> ATCC 29906 (WDCM 00023)	good to very good	-
<i>Pseudomonas aeruginosa</i> ATCC 27853 (WDCM 00025)	good to very good	-
<i>Enterococcus faecalis</i> ATCC 11700	good to very good	conform
<i>Streptococcus agalactiae</i> ATCC 13813	good to very good	+
<i>Staphylococcus epidermidis</i> ATCC 12228 (WDCM 00036)	good to very good	+
<i>Bacillus cereus</i> ATCC 11778 (WDCM 00001)	good to very good	-

Please refer to the actual batch-related Certificate of Analysis



Escherichia coli ATCC 25922

Literature

BRANDL, E., u. SOBECK-SKAL, E.; Zur Methodik der Keimzahlbestimmung in Milch mit ChinablauLactose agar. – Milchwiss. Ber., 13 (1963).

Ordering Information

Product	Cat. No.	Pack size
China-blue Lactose Agar	1023480500	500 g

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