

Technical Data Sheet

R3A Agar - LI

Ordering number: 1.46074.0020

R3A Agar is used to subculture microorganisms found in pharmaceutical or potable water as well as for the primary isolation of aquatic microorganisms.

Ten settle plates each with a diameter of 90 mm are single-bagged in transparent, hydrogen peroxide impermeable sleeves (non-irradiated). The sleeves consist of polypropylene with a barrier of PE-EVOH-PE.

Mode of Action

R3A medium was developed as a suitable subculture medium for organisms which either fail to grow on poorly nutritive R2A Agar or which are suppressed by other microorganisms on highly nutritive media like Tryptic Soy Agar or Plate Count Agar.

Once growth has been established on R2A as a primary media the higher nutritivity of R3A yields colonies which are more suitable for biochemical identification.

Typical Composition

Yeast Extract	1 g/l
Glucose	1 g/l
Prot. Pepton	1 g/l
MgSO ₄	48 mg/l
Casein Hydr.	1 g/l
K ₂ HPO ₄	0.6 g/l
Starch	1 g/l
Na-Pyruvate	0.6 g/l
Agar	15 g/l

The appearance of the medium is clear and whitish. The pH value is in the range of 7.0-7.4. The medium can be adjusted and/or supplemented according to the performance criteria required.

Application and Interpretation

Each plate is provided with a label including a data matrix code for paperless plate identification. The code consists of a two-dimensional 20-digit serial number, which harbors the following information:

digits 1-3: here code 795 (corresponds to article 146074); digits 4-9: lot number; digits 10-14: batch specific individual number; digits 15-20: expiration date (YY/MM/DD).

Please check each agar plate before using it on sterility and pay attention to aseptic handling in order to avoid false positive results.

Storage and Shelf Life

The product can be used for tests until the expiry date if protected from light and properly sealed at +15 °C to +25 °C.

Condensation can be prevented by avoiding quick temperature shifts and mechanical stress.

The testing procedures as described on the CoA can be started up to the expiry date printed on the label.

Disposal

Please mind the respective regulations for the disposal of used culture medium (e.g. autoclave for 20 min at 121 °C, disinfect, incinerate etc.).

Quality Control

Control Strains	ATCC #	Inoculum CFU	Incubation	Expected Results
<i>Staphylococcus aureus</i>	6538	10-100	42-46 h at 33-35 °C	70-200 %
<i>Escherichia coli</i>	8739	10-100	42-46 h at 33-35 °C	70-200 %
<i>Pseudomonas aeruginosa</i>	27853	10-100	42-46 h at 33-35 °C	70-200 %
	9027	10-100	42-46 h at 33-35 °C	70-200 %
<i>Burkholderia cepacia</i>	25416	10-100	42-46 h at 33-35 °C	70-200 %
<i>Ralstonia pickettii</i>	27511	10-100	42-46 h at 33-35 °C	70-200 %
<i>Candida albicans</i>	10231	10-100	70-74 h at 33-35 °C	70-200 %
<i>Aspergillus brasiliensis</i>	16404	10-100	70-74 h at 33-35 °C	70-200 %

Please refer to the actual batch related Certificate of Analysis.

Literature

Sandle, T. (2014) Assessment of the suitability of R3A agar for the subculture of microorganisms isolated from pharmaceutical water systems, European Journal of Parenteral and Pharmaceutical Sciences, 19 (3): 85-94

Ordering Information

Product	Cat. No.	Pack size
R3A Agar - LI	1.46074.0020	20 x 90 mm plates

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