

Product Information

C1096 Cooke Rose Bengal Agar

Cooke Rose Bengal Agar is used for the selective cultivation and isolation of fungi.

Composition:

Ingredients	Grams/Litre
Papaic Digest of Soyabean Meal	5.0
Dextrose	10.0
Monopotassium Phosphate	1.0
Magnesium Sulfate	0.5
Rose Bengal	0.035
Agar	20.0
Final pH 6.0 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.

Appearance: Pinkish yellow colored, homogeneous, free flowing powder.

Gelling: Firm.

Color and Clarity: Pink-red colored, slightly opalescent gel forms in petri plates.

Directions:

Suspend 36.54 g of Cooke Rose Bengal Agar in 1000 ml of distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes. To increase the selectivity of the medium add 35 µg chlortetracycline (Fluka 26430) per ml of medium.

Principle and Interpretation:

Cooke Rose Bengal Agar is formulated according Cooke (1). Waksman (2) Martin (4) and also Smith and Dawson (3) described media which are selective and do not inhibit the fungi.

Rose Bengal, chlortetracycline and the low pH inhibits the bacterial flora. Papaic digest of soyabean meal provide nitrogenous compounds and other growth factors for the growth of fungi. Dextrose is the fermentable carbon source and potassium phosphate is the buffering agents.

Cultural characteristics after 1-4 days at 25-30°C.

Organisms (ATCC)	Growth	Growth with chlortetracycline
<i>Candida albicans</i> (10231)	+++	+++
<i>Saccharomyces cerevisiae</i> (9763)	+++	+++
<i>Aspergillus niger</i> (16404)	++	++
<i>Enterococcus faecalis</i> (29212)	-	-
<i>Escherichia coli</i> (25922)	+	-

References:

1. Cooke, 1959, Antibiotics and Chemotherapy 4:657.
2. Wakesman, J. Bact., 7, 339 (1922)
3. Smith and Dawson, Soil Sci., 58, 467 (1944)
4. Martin, Ibid, 69, 215 (1950)
5. American Type Culture Collection, Manassas Va., U.S.A