



TECHNICAL DATA SHEET

DESCRIPTION LYSINE IRON AGAR, BOTTLED
SGL PRODUCT CODE 3080

Lysine Iron Agar is used for the differentiation of microorganisms on the basis of lysine decarboxylase and hydrogen sulphide production.

A positive lysine decarboxylase reaction is purple (alkaline) butt, purple slant. A negative reaction is yellow (acid) butt, purple (alkaline) slant. A positive lysine deaminase reaction is a red slant. A negative reaction is a purple slant. A positive hydrogen sulphide reaction is blackened medium at the apex of the slant.

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Enzymatic digest of gelatin	5.0 g
Yeast extract	3.0 g
Dextrose	1.0 g
L-Lysine	10.0 g
Ferric ammonium citrate	0.5 g
Sodium thiosulphate	0.04 g
Bromocresol purple	0.02 g
Agar	10 – 15.0 g
Purified water	1000 ml

*Product may be adjusted and/or supplemented to meet performance criteria

QUALITY CONTROL SPECIFICATION

PHYSICAL TESTS	SPECIFICATION CRITERIA
Appearance	Clear, purple coloured gel
pH at 20-25°C	6.7 ± 0.2

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 22-25°C for 5 days	No growth detected
Incubation at 35-37°C for 5 days	No growth detected
Incubation at 42-45°C for 5 days	No growth detected

GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Enterobacter cloacae</i> ATCC 23355	Growth with acid and gas in the agar butt, alkaline agar slant with no hydrogen sulphide formation at 35-37°C incubation after 18-24 hours
<i>Enterobacter aerogenes</i> NCTC 10006	Growth with alkaline agar butt, alkaline agar slant with no hydrogen sulphide formation at 35-37°C incubation after 18-24 hours



GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Proteus mirabilis</i> ATCC 29906	Growth with acid agar butt, red agar slant with no hydrogen sulphide formation at 35-37°C incubation after 18-24 hours
<i>Salmonella enteritidis</i> NCTC 5188	Growth with alkaline agar butt, alkaline agar slant with hydrogen sulphide formation at 35-37°C incubation after 18-24 hours

NMT = Not more than

NLT = Not less than

CFU = Colony forming units

Additional specification testing may be performed as requested by the customer.

Manufactured in compliance with ISO 9001 (Ref No FM37824) and tested by a UKAS (ISO 17025) accredited laboratory (Ref No. 4356).