

BT-SPEC-0101

Distribution: Central File

Date: 09/11/10

Supersedes: 03/02/03

OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

SIMMONS CITRATE AGAR

CM0155

Typical Formula*

Magnesium sulphate	grams per litre	0.2
Ammonium dihydrogen phosphate		0.2
Sodium ammonium phosphate		0.8
Tri-sodium citrate		2.0
Sodium chloride		5.0
Bromothymol blue		0.08
Agar		15.0

* adjusted as required to meet performance standards

Directions

Suspend 23g in 1 litre of distilled water. Bring to the boil to dissolve completely. Mix well and distribute into final containers. Sterilize by autoclaving at 121°C for 15 minutes. Allow to set as slopes with 2.5cm butts. Alternatively, mix well and pour into sterile Petri dishes.

Physical Characteristics

Yellow, free-flowing powder
Colour on reconstitution - dark blue/green
Moisture level - less than 7%
pH 7.0 ± 0.2 at 25°C
Clarity - clear
Gel strength - firm, comparable to 15.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Reactions after incubation at 37°C for 24 hours

Medium is challenged with 1E+04 to 1E+06 colony-forming units

<i>Klebsiella pneumoniae</i>	ATCC® 13883	Growth and colour change of medium to blue
<i>Salmonella enteritidis</i>	ATCC® 13076	Growth and colour change of medium to blue
<i>Salmonella typhimurium</i>	ATCC® 14028	Growth and colour change of medium to blue
<i>Enterobacter aerogenes</i>	ATCC® 13048	Growth and colour change of medium to blue
<i>Escherichia coli</i>	ATCC® 25922	No growth or minimal growth, no colour change
<i>Shigella flexneri</i>	ATCC® 12022	No growth or minimal growth, no colour change
<i>Shigella sonnei</i>	ATCC® 25931	No growth or minimal growth, no colour change

A satisfactory result is represented by reactions in accordance with the specification.

