Distribution: Central File

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OXOID QUALITY ASSURANCE
PRODUCT SPECIFICATION

UREA AGAR BASE   **CM0053**

Typical Formula*

Peptone	grams per litre	1.0
Glucose		1.0
Sodium chloride		5.0
Di-sodium phosphate		1.2
Potassium dihydrogen phosphate		0.8
Phenol red		0.012
Agar		15.0

* adjusted as required to meet performance standards

Directions

Suspend 2.4g in 95ml of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 115°C for 20 minutes. Cool to 50°C and aseptically add the contents of 1 vial of Urea 40% Solution (SR0020K). Mix well, aseptically dispense 10ml amounts into sterile containers and allow to set in the slope position.

Physical Characteristics

Orange/pink, free-flowing powder
Colour on reconstitution - orange
Moisture level - less than 7%
pH 6.8 ± 0.2 at 25°C
Clarity - clear
Gel strength - firm, comparable to 15.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Inoculate slopes of the medium with the test organisms.

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

Reactions after incubation at 30°C for 6 hours

Morganella morganii	ATCC® 25830	Weak urease +ve, pale pink slope, or negative
Proteus mirabilis	ATCC® 29906	Urease +ve, pink slope

Reactions after incubation at 30°C for 24 hours

Morganella morganii	ATCC® 25830	Urease +ve, pink slope
Klebsiella pneumoniae	ATCC® 13883	Weak urease +ve, pale pink slope
Shigella sonnei	ATCC® 25931	Urease -ve, no colour change
Enterobacter aerogenes	ATCC® 13048	Urease -ve, no colour change
Escherichia coli	ATCC® 25922	Urease -ve, no colour change
Escherichia coli	ATCC® 11775	Urease -ve, no colour change

Salmonella nottingham NCTC 7832 Urease -ve, no colour change

Reactions after incubation at 30°C for up to 72 hours

Candida albicans   ATCC® 10231 Urease -ve, no colour change
Cryptococcus albidus ATCC® 34140 Weak urease +ve, pink slope

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