

OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION
UREA BROTH BASE (CM0071)
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CM0071
Typical Formula*

Peptone	grams per litre	1.0
Glucose		1.0
Di-sodium hydrogen phosphate		1.2
Potassium dihydrogen phosphate		0.8
Sodium chloride		5.0
Phenol red		0.004

* adjusted as required to meet performance standards

Directions

Dissolve 0.9g in 95ml of distilled water. 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 and aseptically dispense into sterile containers.

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

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Microbiological Tests Using Optimum Inoculum Dilution

Inoculate 10ml volumes of complete broth medium with test organisms.

Reactions after incubation at 30°C for 6 hours

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

<i>Morganella morganii</i>	ATCC® 25830	Weak urease +ve, pale pink broth, or negative
<i>Proteus mirabilis</i>	ATCC® 29906	Urease +ve, pink broth

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

Reactions after incubation at 30°C for 24 hours

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

<i>Morganella morganii</i>	ATCC® 25830	Urease +ve, pink broth
<i>Klebsiella pneumoniae</i>	ATCC® 13883	Weak urease +ve, trace pink or pink broth
<i>Shigella sonnei</i>	ATCC® 25931	Urease -ve, no colour change
<i>Enterobacter aerogenes</i>	ATCC® 13048	Urease -ve, no colour change
<i>Escherichia coli</i>	ATCC® 25922	Urease -ve, no colour change
<i>Salmonella typhimurium</i>	ATCC® 14028	Urease -ve, no colour change


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

Reactions after incubation at 30°C for 72 hours

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

<i>Candida albicans</i>	ATCC® 10231	Urease -ve, no colour change
<i>Cryptococcus albidus</i>	DSMZ 70197	Weak urease +ve, pink broth

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

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Update to <i>Klebsiella pneumoniae</i> specification	Change control	BT-CC-1629