

PRODUCT INFORMATION

Urea Broth

Cat. No. U21-102B

DESCRIPTION

Urea Broth Base is used for differentiating Enterobacteriaceae, especially *Proteus*, based on urease activity.

FORMULA (g/L)

Yeast Extract	1.0 g	Urea	20.0 g
Dipotassium Phosphate	9.5 g	Phenol Red	0.01 g
Monopotassium Phosphate	9.1 g		

Final pH: 6.8 ± 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 39.6 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Sterilize by filtration. DO NOT BOIL OR AUTOCLAVE.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing with soft lumps and pale orange to pink.
2. Visually the prepared medium is brilliant to clear and pale to light yellow orange.
3. Expected cultural response after 18-24 hours at 35 °C.

ORGANISM	RESULT
<i>Enterobacter aerogenes</i> ATCC 13048	Urease negative
<i>Escherichia coli</i> ATCC 25922	Urease negative
<i>Proteus vulgaris</i> ATCC 13315	Urease positive (Pink)
<i>Salmonella typhimurium</i> ATCC 14028	Urease negative



STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.

Version 01 – Date 03/08/24