Shigella Broth Base

Product No. CM251

Intended Use
Used for the selective enrichment of *Shigella spp.* (GB)

Specification 250 g

Ingredients	(g/L)
Tryptone	20.0
Glucose	1.0
Dipotassium phosphate	2.0
Potassium dihydrogen phosphate	2.0
Sodium chloride	5.0
Tween 80	1.5

(pH 7.0 ± 0.2)

Additional Reagents
No

Principle and Interpretation
Tryptone is used as a nutrient in the medium to provide nitrogen source and growth factor for cell growth. Glucose provides carbon source for cell growth. Dipotassium phosphate and potassium dihydrogen phosphate as buffers to maintain the pH of the medium. Sodium chloride maintained osmotic pressure of medium system. Tween 80 is a neutralizer. Neomycin can inhibit the growth of gram-positive bacteria.

Directions
Suspend 31.5 g of the powder in 1 L of distilled water. Heat with frequent agitation and boil to dissolve completely. Autoclave at 121℃ for 15 minutes. Cool to approximately 50°C, add 1 vial of P-10D (neomycin) to every 225mL base, shake well.

Precautions
No

Quality Control

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	Growth
Shigella flexneri CMCC(B) 51572	10-100	TSA	Semi-quantitative	41.5℃±1℃ 16h±20h, anaerobic incubation	>10CFU in XLD, colorless to pink, translucent colony
Staphylococcus aureus ATCC 6538					<100CFU in TSA
Staphylococcus aureus CICC 25018 [CMCC(B) 26305]					

Storage Conditions

Keep container tightly closed and store in a cool dry place.

Shelf Life

3 years.

Related Products

Product No.	Product Name	Specification
CM251-06	Shigella Broth	100 mLx10
CM251-08	Shigella Broth	100 mLx6

For laboratory use in industry or R&D purpose. Not for drug, household or other uses.