HBSS (Hanks' Balanced Salt Solution)

Cat. No. CPH001 / CPH002 / CPH003 / CPH004

Balanced Salt Solution for Cell/Tissue Culture & Transport

1. Product Description

Balanced salt solution plays a crucial role in maintaining pH and osmotic balance, as well as supplying water and inorganic ions to living cells or biological tissues. Therefore, it can be widely used in cell/tissue culture applications such as washing, transport, short-term storage, dilution, and dissolution of other reagents. It is especially widely used as the primary solution for specimen transport media to deliver cells or biological tissues to testing sites for various diagnoses and examinations.

2. Composition Comparison Table (mg/L)

Inorganic Salts & Others	CPH001 (BY1211)	CPH002 (BY1221)	CPH003 (BY1231)	CPH004 (BY1241)
$CaCl_2$ (Anhydrous)	—	140.0	—	140.0
KCl	400.0	400.0	400.0	400.0
KH_2PO_4 (Anhydrous)	60.0	60.0	60.0	60.0
$MgSO_4$ (Anhydrous)	—	97.7	—	97.7
NaCl	8000.0	8000.0	8000.0	8000.0
Na_2HPO_4 (Anhydrous)	47.7	47.7	47.7	47.7
$NaHCO_3$	350.0	350.0	350.0	350.0
D-Glucose	1000.0	1000.0	1000.0	1000.0
Phenol Red	—	—	10.0	10.0

3. Product Quality Specifications

Item	Appearance	pH	Osmolality	Sterility
Criteria	Colorless or red clear liquid	pH 7.3 ± 0.3	282 ± 15 mOsmol/kg H_2O	Sterile

4. Storage Conditions and Precautions

Store at room temperature (15–30°C) protected from direct sunlight. Product degradation may appear as precipitates, floating particles, turbidity, or color change; discard if any are observed. Long-term storage at low temperatures or the addition of extra substances may cause degradation.

5. Usage Instructions and Precautions

This product is a sterile solution. Open the cap only in a sterile environment (e.g., a clean bench) using aseptic technique. It is recommended to use the entire contents after opening; otherwise, aliquot into a suitable sterile container and store accordingly.