

Product Information

Dulbecco's Phosphate Buffered Saline

with calcium, with magnesium

CATALOG NO. 59300C

Description

Dulbecco's Phosphate Buffered Saline (DPBS) is intended for use in the maintenance of mammalian cells where a chemically defined balanced salt solution provides an environment that will maintain the structural and physiological integrity of cells *in vitro*. DPBS is commonly used in cell enumerations as a diluent, for rinsing cells and as a buffer in many chromatographic procedures.

Formulation

Component (all components measured in mg/L)	
INORGANIC SALTS	
Calcium chloride dihydrate	132.500
Magnesium chloride hexahydrate	100.000
Potassium chloride	200.000
Potassium phosphate monobasic anhydrous	200.000
Sodium chloride	8000.000
Sodium phosphate dibasic anhydrous	1150.000

Precautions

Use aseptic technique when handling or supplementing this buffer after filtration. This product is for further manufacturing use. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

Storage

Store medium at 15 to 30 C. Do not use after the expiration date.

Indications of Deterioration

Buffer should be clear of particulates and flocculent material. Do not use if liquid buffer is cloudy or contains precipitate. Other evidence of deterioration may include color change or degradation of physical or performance characteristics.

Preparation Instructions

Supplements, such as antibiotics, can be added to the sterilized solution using aseptic technique. Storage conditions and shelf life of the supplemented product may be affected by the nature of the supplements.

Characteristics

Appearance

Clear colorless solution

Endotoxin (LAL)

≤ 1.0 EU/mL

Osmolality (as supplied)

265 - 305 mOsm/kg H₂O

pH (as supplied)

7.0 - 7.4

Sterility

No microbial growth detected.

References

1. Dulbecco, R. and Vogt, M., *J. Exp. Med.* (1954) 99:167.

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