

BUFFERED SALINE (DULBECCO), WITH ADDED CALCIUM AND MAGNESIUM, CONCENTRATED 10x, STERILE FILTERED

IVD *In vitro* diagnostic medical device



Buffered saline (PBS solution) (10X) with added CaCl₂ and MgCl₂ INSTRUCTIONS FOR USE

REF Product code: DCMX-OT-500 (500 mL)

Introduction

Buffered saline (Dulbecco) with added calcium and magnesium, concentrated 10x, sterile filtered is a hypertonic solution buffered using phosphate buffer. After dilution it is used for maintaining intracellular and extracellular osmotic balance and stabilization of cells during subcultivation and isolation processes (rinsing of cells, dilution). It provides water for cells and inorganic ions necessary for maintaining cellular metabolism. Formulation with added calcium and magnesium is used as transport medium or for preparation of reagents.

Product description

- BUFFERED SALINE (DULBECCO) WITH ADDED CALCIUM AND MAGNESIUM, CONCENTRATED 10x, STERILE FILTERED** - Nutritive, transport solution for maintaining intercellular and extracellular osmotic balance. Solution 1x DPBS with added Ca/Mg is prepared by mixing solution 10x DPBS, 10x Ca/Mg and demineralized water.

The product contains:	
Buffered saline (Dulbecco), without calcium and magnesium, concentrated 10x, sterile filtered - 10x DPBS	500 mL (DX-OT-500)
Calcium and magnesium solution, concentrated 10x, sterile filtered - 10x Ca/Mg	500 mL (CAMG10-OT-500)

- Formulation of 1x DPBS solution with added calcium and magnesium**

Raw material name	DPBS solution with added Ca/Mg, 1x- g/L
NaCl	8,0 g
KCl	0.2 g
KH ₂ PO ₄	0.2 g
Na ₂ HPO ₄	1.44 g
CaCl ₂	0.1 g
MgCl ₂ ·x6H ₂ O	0.1 g

pH	7.4±0.1
Osmolality	270-315 mOsm/kg

Preparation of 1xDPBS with added Ca/Mg (volume 1000 ml):

- Add 100 ml of 10xDPBS to 800 ml of demineralized water, stir and add 100 ml of 10x Ca/Mg

Safety at work and environmental protection

Handle the product in accordance with safety at work and environmental protection guidelines. The product is intended only for *in vitro* diagnostic use. Concentration of chemicals used in this procedure could pose danger to human health. Act in accordance with signs and warnings notices printed on the product's label, as well as in BioGnost's material safety data sheet available on request.

Storing, stability and expiry date

Keep Buffered saline (Dulbecco) with added calcium and magnesium, concentrated 10x, sterile filtered in a tightly closed original packaging at temperature between 15°C and 25°C. Do not keep in cold places, do not freeze and avoid exposing to direct sunlight. Date of manufacture and expiry date are printed on the product's label.

References

- Dulbecco, R., Vogt, M.: Plaque Formation and Isolation of Pure Lines with Poliomyelitis Viruses. *J. Exp. Med.* 106: 167-169 (1957).

DCMX-OT-500, V1-EN1, 29 January 2016, IŠP/VR

Refer to the supplied documentation	Storage temperature range	Number of tests in package	REF Product code	European Conformity
Refer to supplied instructions	Keep away from heat and sunlight	Valid until	LOT Lot number	Manufacturer
IVD For <i>in vitro</i> diagnostic use only	Keep in dry place	Caution - fragile		

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