

1X Dulbecco's Phosphate Buffered Saline with Calcium & Magnesium (1X DPBS)

Catalog #:	114-059-101	500 ml
pH:	7.3 ± 0.1	
Osmolality:	300 ± 5% mOsm/Kg H ₂ O	
Store at:	2°C to 8°C	
Shipped at:	ambient temperature	

Description

Quality Biological's (QBI) Dulbecco's Phosphate Buffered Saline¹ is prepared from ACS Grade calcium chloride (CaCl₂), magnesium chloride (MgCl₂), potassium chloride (KCl), potassium phosphate monobasic (KH₂PO₄ anhydrous), sodium chloride (NaCl), and sodium phosphate dibasic (Na₂HPO₄•7H₂O) using Quality Biological's Cell Culture Grade Water. "PBS" is an abbreviation for "Phosphate-Buffered-Saline."

Applications

Dulbecco's Phosphate Buffered Saline is frequently used as a "wash buffer" or reagent in both Cell Biology and Molecular Biology techniques.

The following are examples where Dulbecco's Phosphate Buffered Saline may be usefully employed:

- "Wash buffer" for cell culture when performing serial passage⁵
- "Wash buffer" for immunological application (e.g., Western Blotting⁴)

Quality Control

General

The quality of a product is a combination of careful selection of raw materials, proper manufacturing procedures, and diligent monitoring of each step.

Quality Control is used to determine whether each step in the manufacturing process has been properly carried out and the finished product meets or exceeds the standards established for it.

Product Specific Testing

Dulbecco's Phosphate Buffered Saline is routinely tested to verify it meets product specifications for the following parameters:

- pH
- Osmolality
- Microbiological Testing

The test results of individual lots of Dulbecco's Phosphate Buffered Saline are available on the QBI website.

References

1. Dulbecco, R. & Vogt, M., (1954) *J. Exp. Med.*, **99**, 167-182.
2. Sambrook, J., Fritsch, E.F. & Maniatis, T. (1989) *Molecular Cloning, a Laboratory Manual, 2nd Edition.*, Cold Spring Harbor Press
3. Ausubel, F.M. et al., eds. (1993) *Current Protocols in Molecular Biology*. Green Publishing Associates, Inc., in association with John Wiley & Sons, Inc.
4. Davis, L.G. Dibner, M.D. & Battey, J.F. (1986) *Basic Methods in Molecular Biology*. Elsevier Science Publishing Company, Inc.
5. Freshney, R.I. (1994) *Culture of Animal Cells: A Manual of Basic Technique, 3rd Ed.*, Wiley-Liss, John Wiley & Sons, Inc.

Related Products

1X Dulbecco's Phosphate Buffered Saline without Calcium & Magnesium

(1X DPBS, without Ca²⁺ & Mg²⁺)

Catalog #	114-057-101	500mL
	114-057-101CS	10 x 5000mL
	114-057-131	1000mL
	114-056-491	4 Liters
	114-056-151	10 Liters

10X Dulbecco's Phosphate Buffered Saline without Calcium & Magnesium

(DPBS, 10X, without Ca²⁺ & Mg²⁺)

Catalog #	119-068-101	500mL
	119-068-131	1000mL
	119-068-491	4 Liters
	119-068-151	10 Liters

Cell Culture Grade Water, Ultra Pure

Catalog #	118-162-101	500mL
	118-162-101CS	10 x 500mL
	118-162-131	1000mL
	118-162-131CS	10 x 1000mL
	118-162-151	10 Liters
	118-162-161	20 Liters

All products sold by Quality Biological, Inc. are intended for research use only. This product has not been approved for diagnostic or IVD use.