



Technical Information Products for Cell Biology

1X Dulbecco's Phosphate Buffered Saline with Ca & Mg(1X D-PBS)

Catalog #:	114-059-101 500 ml
pH:	7.3±0.1
Osmolality:	280±5% mOsm/Kg H ₂ O
Store at:	2 to 8°C
Shipped at:	ambient temperature
Composition:	MgCl ₂ 100 mg/L, 0.493mM; KH ₂ PO ₄ 200 mg/L, 1.47mM; NaCl 8000 mg/L, 137.9mM; Na ₂ HPO ₄ •7H ₂ O 2160 mg/L, 8.06mM; CaCl ₂ 130 mg/L, 0.884mM; 200 mg/L KCl 2.68mM in Cell Culture Grade Water

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. The final product is sterilized by passed through a 0.1 µm filter. "PBS" is an abbreviation for "Phosphate-Buffered-Saline."

APPLICATIONS

Dulbecco's Phosphate Buffered Saline is frequently used as a reagent ("wash buffer") in Cell Biology. The following are examples where D-PBS may be usefully employed:

- "Wash buffer" for cell culture when performing serial passage⁵
- "Wash buffer" for immunological applications (e.g., Western Blotting)⁴

QUALITY CONTROL

General

The quality of a product is insured through the establishment of standards for the selection of the materials used in its manufacture coupled with the establishment of formal protocols for its production.

Quality Control testing is used to determine whether 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
- Microbial Tested

The test results of individual lots of Dulbecco's Phosphate Buffered Saline are available upon request from Technical Services.

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 Laboratory Press.
3. Ausubel, F.M. et al., eds. (1993) *Current Protocols in Molecular Biology*. Greene 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, Inc.

RELATED PRODUCTS

1X Dulbecco's Phosphate Buffered Saline without Calcium & Magnesium (1X D-PBS without Ca⁺⁺ & Mg⁺⁺)

Catalog #	114-057-101	500 ml
	114-057-131	1000 ml (1.0 L)
	114-057-491	4 Liter
	114-057-151	10 Liter

Dulbecco's Phosphate Buffered Saline without Calcium & Magnesium, [10X] (D-PBS, 10X without Ca & Mg)

Catalog #	119-068-101	500 ml
	119-068-131	1000 ml (1.0 L)
	119-068-491	4 Liter
	119-068-151	10 Liter

Dulbecco's Phosphate Buffered Saline with Tween 20[®] (D-PBS with Tween 20[®])

Catalog #	114-154-101	500 ml
	114-154-131	1000 ml (1.0 L)

Cell Culture Grade Water, Ultra Pure

Catalog #	118-162-101	500 ml
	118-162-131	1000 ml (1.0 L)
	118-162-491	4 Liter
	118-162-151	10 Liter
	118-162-161	20 Liter

All products sold by Quality Biological are intended for research use only. Not for IVD Use.

This product has not been approved for diagnostic or drug use.

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