Technical Information
Products for Cell Biology

1X Phosphate Buffered Saline, pH 7.4
(1X PBS, pH 7.4)

Catalog #:

114-058-101	500 ml
114-058-101CS	10x500ml
114-058-131	1000 ml (1.0 L)
114-058-131CS	10x1000ml
114-058-491	4 Liter
114-058-151	10 Liter
114-058-161	20 Liter

Osmolality: 300±5% mOsm/Kg H_2O

Store at: 15 to 30°C

Shipped at: ambient temperature

Composition: Na_2HPO_4 795 mg/L, 5.60mM; KH_2PO_4 144 mg/L, 1.06mM; NaCl 9000 mg/L, 154.0mM in Cell Culture Grade Water

DESCRIPTION

Quality Biological's (QBI) Phosphate Buffered Saline pH 7.4 is prepared from ACS Grade sodium phosphate dibasic (Na_2HPO_4 anhydrous), potassium phosphate monobasic (KH_2PO_4) and sodium chloride (NaCl) using Quality Biological's Cell Culture Grade Water. The final product is sterile filtered through a 0.1 µm filter. "PBS" is an abbreviation for "**P**hosphate-**B**uffered-**S**aline.

APPLICATIONS

Phosphate Buffered Saline pH 7.4 is frequently used as a "wash buffer" or reagent in both Cell Biology and Molecular Biology techniques. The following are examples where Phosphate Buffered Saline pH 7.4 may be usefully employed:

- *"Wash buffer" for cell culture when performing serial passage*[4]
- *"Wash buffer" for immunological applications (e.g., Western Blotting)*[3]

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

Phosphate Buffered Saline pH 7.4 is routinely tested to verify it meets product specifications for the following parameters:

- *pH*
- *Osmolality*
- *Microbiology*

The test results of individual lots of Phosphate Buffered Saline pH 7.4 *are available upon request from Technical Services.*

REFERENCES

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

RELATED PRODUCTS

1X Phosphate Buffered Saline pH 7.2 (1X PBS pH 7.2)

Catalog #	114-056-101	500 ml

Phosphate Buffered Saline pH 7.4 (10X) (PBS pH 7.4 10X)

Catalog #	119-069-101	500 ml
	119-069-101CS	10x500ml
	119-069-131	1000 ml (1.0L)
	119-069-131CS	10x1000ml
	119-069-491	4 Liter
	119-069-151	10 Liter

Cell Culture Grade Water, Ultra Pure

Catalog #	118-162-101	500 ml
	118-162-101CS	10x500ml
	118-162-131	1000 ml (1.0 L)
	118-162-131CS	10x1000ml
	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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