

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

<b>Catalog #:</b>	114-058-101	500 ml
	114-058-101CS	10 X 500mL
	114-058-131	1000mL (1.0L)
	114-058-131CS	10 X 1000mL
	114-058-491	4 L
	114-058-151	10 L
	114-058-161	20L
<b>Osmolality:</b>	300±5% mOsm/Kg H <sub>2</sub> O	
<b>Store at:</b>	15°C to 30°C	
<b>Shipped at:</b>	ambient temperature	

### **Description**

Quality Biological's (QBI) Phosphate Buffered Saline pH 7.4 is prepared from ACS Grade sodium phosphate dibasic (Na<sub>2</sub>HPO<sub>4</sub> anhydrous), potassium phosphate monobasic (KH<sub>2</sub>PO<sub>4</sub>) 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 "Phosphate-Buffered-Saline."

### **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 7.2 may be usefully employed:

- "Wash buffer" for cell culture when performing serial passage<sup>4</sup>
- "Wash buffer" for immunological application (e.g., Western Blotting<sup>3</sup>)

### **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
- Microbiological Testing

*The test results of individual lots of Phosphate Buffered Saline, pH 7.4 are available on the QBI website.*

### References

1. Sambrook, J., Fritsch, E.F. & Maniatis, T. (1989) *Molecular Cloning, a Laboratory Manual, 2<sup>nd</sup> Edition.*, Cold Spring Harbor Press
2. Ausubel, F.M. et al., eds. (1993) *Current Protocols in Molecular Biology*. Green 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, 3<sup>rd</sup> Ed.*, Wiley-Liss, John Wiley & Sons, Inc.

### Related Products

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

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

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

Catalog #	119-069-101	500mL
	119-069-101CS	10 x 500mL
	119-069-131	1000mL
	119-069-131CS	10 x 1000mL
	119-069-491	4 Liters
	119-069-151	10 Liters
	119-069-161	20 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
	118-162-491	4 Liters
	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.**