

Choose Fisher BioReagents™ buffers for:

QUALITY: tight specifications

CONSISTENCY: lot-to-lot uniformity

SELECTION: powders, concentrated stock solutions, or ready-to-use liquids

PACKAGING: state-of-the-art containers designed for safety and utility

CONVENIENCE: pre-qualified for a variety of applications

ECONOMY: size configurations to meet all budgets

SCALE: from bench to batch sizes

Description	Size	Cat. No.
Buffers for Life Science Applications		
EDTA Ethylenediamine Tetraacetic Acid		
0.5M (pH 8.0)	100mL	BP2482-100
0.5M (pH 8.0)	500mL	BP2482-500
0.5M (pH 8.0)	1L	BP2482-1
0.5M (pH 8.0)	20L	BP2482-20
0.5M (pH 8.0), DEPC	100mL	BP2483-100
0.5M (pH 8.0), DEPC	500mL	BP2483-500
0.5M (pH 8.0), DEPC	1L	BP2483-1
Powder	500g	BP118-500
HEPES		
1.0M (pH 7.3)	100mL	BP299-100
1.0M (pH 7.3)	500mL	BP299-500
1.0M (pH 7.3)	1L	BP299-1
Crystals	100g	BP310-100
Crystals	500g	BP310-500
Crystals	1kg	BP310-1
Crystals	5kg	BP310-5
PBS Phosphate Buffered Saline		
Tablets	100 tablets	BP2944-100
1X	4L	BP2438-4
1X	20L	BP2438-20
10X	500mL	BP399-500
10X	1L	BP399-1
CellPURE™ PBS 10X	4L	BP2940-4
10X	4L	BP399-4
10X	20L	BP399-20
1X Powder Concentrate	10L	BP661-10
1X Powder Concentrate	50L	BP661-50
Powder with Tween® 20	10 pouches	BP2938-10
Powder with BSA	10 pouches	BP2942-10
10X Powder Concentrate	2x1L	BP665-1
STE Sodium Chloride-Tris-EDTA		
1X (pH 8.0)	1L	BP2478-1
10X (pH 8.0)	1L	BP2479-1
TBS Tris-Buffered Saline		
1X (pH 7.4)	1L	BP2472-1
10X (pH 7.4)	100mL	BP2471-100
10X (pH 7.4)	1L	BP2471-1

Description	Size	Cat. No.
TE Tris-EDTA		
1X (pH 7.4)	100mL	BP2476-100
1X (pH 7.4)	500mL	BP2476-500
1X (pH 7.4)	1L	BP2476-1
1X (pH 8.0)	100mL	BP2473-100
1X (pH 8.0)	500mL	BP2473-500
1X (pH 8.0)	1L	BP2473-1
1X (pH 7.6)	100mL	BP2474-100
1X (pH 7.6)	500mL	BP2474-500
1X (pH 7.6)	1L	BP2474-1
10X (pH 7.4)	1L	BP2477-1
10X (pH 7.6)	100mL	BP2475-100
10X (pH 7.6)	500mL	BP2475-500
10X (pH 7.6)	1L	BP2475-1
100X (pH 8.0)	1L	BP1338-1
100X (pH 8.0)	4L	BP1338-4
100X	1L**	BP1339-1
Tris Buffer		
0.3M	500mL	BP1761-500
0.3M	1L	BP1761-1
2.0M	100mL	BP1759-100
2.0M	500mL	BP1759-500
Tris Hydrochloride		
1.0M (pH 7.0)	100mL	BP1756-100
1.0M (pH 7.0)	500mL	BP1756-500
1.0M (pH 7.5)	100mL	BP1757-100
1.0M (pH 7.5)	500mL	BP1757-500
1.0M (pH 8.0)	100mL	BP1758-100
1.0M (pH 8.0)	500mL	BP1758-500
Solid	500g	BP153-500
Solid	1kg	BP153-1
Tris Base		
Crystals	500g	BP152-500
Crystals	1kg	BP152-1
Crystals	5kg	BP152-5
Crystals	10kg	BP152-10
Crystals	25kg	BP152-25
Water		
Biotech Grade	4L	BP2485-4
	20L	BP2485-20
Nuclease-Free, Sterile	50mL	BP2484-50
	100mL	BP2484-100
DNA Grade, Sterile	1L	BP2470-1
RNA Grade, DEPC-treated, Sterile	1L	BP561-1

Quality. Consistency. Selection.

* Pre-weighed powder in poly bottle. Dissolve in water.

** Pre-weighed powder in foil pack. Dissolve in water.

Related Core BioReagents

Ethanol, Molecular Biology Grade

Cat. No.	Size
BP2818-100	100mL
BP2818-500	500mL
BP2818-4	4L



Isopropanol, Molecular Biology Grade

Cat. No.	Size
BP2618-500	500mL
BP2618-1	1L
BP2618-212	2.5L
BP2618-4 4L	

Water (0.1µm filtered), Molecular Biology Grade

Cat. No.	Size
BP2819-100	100mL
BP2819-1	1L
BP2819-4	4L
BP2819-10	10L
BP2819-20	20L





- Ultrapure zwitterionic biological buffers
- Optimized for cell/tissue culture work
- Wide applicability to molecular biology and biochemical studies
- Manufactured under strict quality control guidelines to ensure performance and reliability

Fisher BioReagents buffers meet the needs of every budget and scale.

- Economical powders come in various package sizes
- Concentrated stock solutions provide convenience in one step of easy dilution
- Ready-to-use solutions offer the biggest time savings of all

Obtaining optimal results in your research requires careful selection of reagents. When your experiments require exact buffering conditions, you can depend on the reliability of Fisher BioReagents buffers. All Fisher BioReagents buffers are manufactured from high-quality raw materials under ISO 9001:2008-certified manufacturing and testing processes.

The purpose of a buffer in a biological system is to maintain intracellular and extracellular pH within the physiological range and resist changes in pH due to the presence of internal and external influences. CellPURE Biological Buffers from Fisher BioReagents are ultrapure zwitterionic buffers that possess both positive and negative charges. First described by Good and co-workers in 1966, these organic buffers have pKa values at or near physiological pH and minimal interference with biological processes. CellPURE Biological Buffers are ideal for cell cultivation, isolation of cells, enzyme assays, and other biochemical applications.

(Reference: Good, N.E., et al. (1966) Hydrogen Ion Buffers for Biological Research. *Biochemistry* 5(2): 467-477)

Advantages

- Cell culture tested
- Analyzed for the absence of nucleases and proteases
- Tested for endotoxin and bioburden levels
- pK_a values mostly independent of temperature and concentration
- High water solubility
- Minimal permeability to biological membranes

Applications

- Tissue culture media and maintenance of cell lines
- Enzyme assays
- Electrophoresis of RNA
- Transfection of mammalian cells

Properties of CellPURE Biological Buffers

Cat. No.	Product Description	Formula	Molecular Weight	pK _a @ 25° C	Useful pH Range	Cell Culture Tested	Endotoxin Assay	Nuclease and Protease Tested	Size
BP2941-100	BIS-TRIS	C ₈ H ₁₉ NO ₅	209.24	6.5	5.8 to 7.2	X	X	X	100g
BP2943-100	BIS-TRIS propane	C ₁₁ H ₂₈ N ₂ O ₆	282.33	6.8†	6.3 to 9.5	X	X	X	100g
BP2947-100	BES	C ₈ H ₁₅ NO ₂ S	213.25	7.1	6.4 to 7.8	X	X	X	100g
BP2936-100	MOPS	C ₈ H ₁₅ NO ₂ S	209.26	7.2	6.5 to 7.9	X	X	X	100g
BP2946-25	MOPS sodium salt	C ₈ H ₁₄ NNaO ₄ S	231.25	7.2	6.5 to 7.9	X	X	X	25g
BP2937-100	HEPES	C ₈ H ₁₈ N ₂ O ₄ S	238.30	7.5	6.8 to 8.2	X	X	X	100g
BP2939-100	HEPES Sodium Salt	C ₈ H ₁₇ N ₂ NaO ₄ S	260.29	7.5	6.8 to 8.2	X	X	X	100g
BP2945-100	TES	C ₈ H ₁₅ NO ₂ S	229.25	7.5	6.8 to 8.2	X	X	X	100g

† pK_a = 9.0 for the second dissociation stage

Technical Tip

The Water Makes a Difference. CellPURE Biological Buffers are of the highest quality (purity ≥ 99%). They are tested for low heavy metal content and the absence of endotoxins, nucleases, and proteases. It is important to use only water of the highest quality to prepare the buffer solutions. Water that stands too long in pipes or water produced by a system needing routine maintenance increases the risk for contamination of buffer solutions. Fisher BioReagents provides several grades of high purity water suitable for the preparation of high quality buffer solutions.