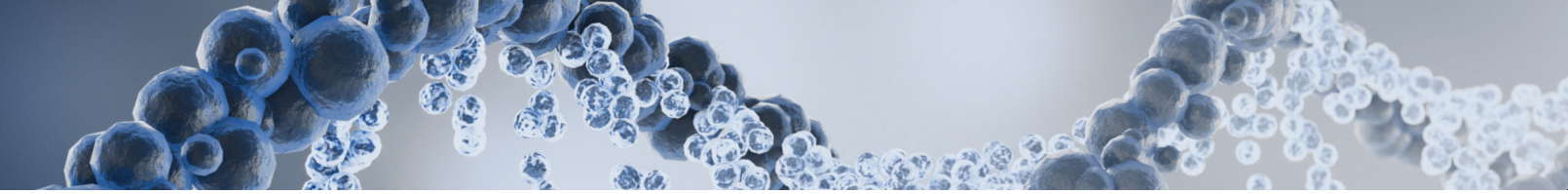


# Buffers for Life Sciences Research

Cell Culture | Electrophoresis | Nucleic Acid and Protein Isolation



Bringing Chemistry to Life



| Description                                   | Size        | Cat. No.   |
|---|-------------|------------|
| <b>Buffers for Life Sciences Applications</b> |             |            |
| <b>EDTA Ethylenediamine Tetraacetic Acid</b>  |             |            |
| 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  |
| <b>HEPES</b>                                  |             |            |
| 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    |
| <b>PBS Phosphate Buffered Saline</b>          |             |            |
| Tablets                                       | 100 tablets | BP2944-100 |
| 1X  | 4L          | BP2438-4   |
| 1X  | 20L         | BP2438-20  |
| 10X   | 500mL       | BP399-500  |
| 10X   | 1L          | BP399-1    |
| 10X   | 4L          | BP399-4    |
| 10X   | 20L         | BP399-20   |
| 1X Powder Concentrate                         | 10L         | BP661-10   |
| 1X Powder Concentrate                         | 50L         | BP661-50   |
| 10X Powder Concentrate                        | 2 x 1L      | BP665-1    |
| <b>STE Sodium Chloride-Tris-EDTA</b>          |             |            |
| 1X (pH 8.0)                                   | 1L          | BP2478-1   |
| 10X (pH 8.0)                                  | 1L          | BP2479-1   |
| <b>TBS Tris-Buffered Saline</b>               |             |            |
| 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.   |
|---------------------------|-------|------------|
| <b>TE Tris-EDTA</b>       |       |            |
| 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                      | 1L**  | BP1339-1   |
| <b>Tris Buffer</b>        |       |            |
| 0.3M                      | 500mL | BP1761-500 |
| 2.0M                      | 100mL | BP1759-100 |
| 2.0M                      | 500mL | BP1759-500 |
| <b>Tris Hydrochloride</b> |       |            |
| 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    |
| <b>Tris Base</b>          |       |            |
| Crystals                  | 500g  | BP152-500  |
| Crystals                  | 1kg   | BP152-1    |
| Crystals                  | 5kg   | BP152-5    |
| Crystals                  | 10kg  | BP152-10   |
| Crystals                  | 25kg  | BP152-25   |

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

## Core Life Science Solvents

### Ethanol (200 Proof), 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    |

### Dimethyl Sulfoxide (DMSO) Cell Culture Grade

| Cat. No. | Size  |
|----------|-------|
| BP231100 | 100mL |
| BP2311   | 1L    |
| BP2314   | 4L    |

\* Other ethanol solutions are also available.



In a biological system, buffers maintain intracellular and extracellular pH within the physiological range and resist changes in pH caused by internal and external influences.

### 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:** configurations to meet all budgets
- Scale:** from bench to batch sizes

### Fisher Bioreagents buffers meet the needs of every budget and scale.

- Economical powders come in various package sizes that allow you to make your own solutions
- Pre-weighed powders are ready for making buffers in specific pH balances and concentrations
- Concentrated stock solutions are easy and convenient dilutions
- Ready-to-use solutions are pre-made in specific pH balances and concentrations and offer the most time savings

### Suitable for life sciences applications:

- Electrophoresis of nucleic acids and proteins
- Isolation and purification of biomolecules
- Cell and tissue culture
- Tested to ensure the absence of DNase, RNase, and protease

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 9001:2015 certified manufacturing and testing processes. In addition, buffers are sterilized by 0.2µm filtration and/or autoclaving.

| Description                                       | Size  | Cat. No.   |
|---|-------|------------|
| <b>Buffers for Protein Electrophoresis</b>        |       |            |
| <b>FASTRun™ Tris SDS PAGE Running Buffer</b>      |       |            |
| 10X   | 500mL | BP881-500  |
| 10X   | 1L    | BP881-1    |
| <b>TG Tris-Glycine</b>                            |       |            |
| 10X   | 1L    | BP1306-1   |
| 10X   | 4L    | BP1306-4   |
| 10X   | 1L**  | BP1307-1   |
| <b>TGS Tris-Glycine-SDS</b>                       |       |            |
| 10X   | 1L    | BP1341-1   |
| 10X   | 4L    | BP1341-4   |
| 5X  | 1L*   | BP1398-92  |
| 10X   | 1L**  | BP1342-1   |
| <b>SDS Sodium Dodecyl Sulfate</b>                 |       |            |
| 10%   | 200mL | BP2436-200 |
| 10%   | 1L    | BP2436-1   |
| 20%   | 200mL | BP1311-200 |
| 20%   | 1L    | BP1311-1   |
| Micropellets                                      | 100g  | BP8200-100 |
| Micropellets                                      | 500g  | BP8200-500 |
| Micropellets                                      | 5kg   | BP8200-5   |
| White Powder                                      | 100g  | BP166-100  |
| White Powder                                      | 500g  | BP166-500  |
| White Powder                                      | 5kg   | BP166-5    |
| <b>Buffers for Nucleic Acid Electrophoresis</b>   |       |            |
| <b>TBE Tris-Borate-EDTA</b>                       |       |            |
| 1X  | 1L    | BP2430-1   |
| 1X  | 4L    | BP2430-4   |
| 1X  | 20L   | BP2430-20  |
| 5X  | 1L*   | BP1396-86  |
| 10X   | 1L    | BP1333-1   |
| 10X   | 4L    | BP1333-4   |
| 10X   | 20L   | BP1333-20  |
| 10X   | 1L**  | BP1334-1   |
| <b>TAE Tris-Acetate-EDTA</b>                      |       |            |
| 1X  | 4L    | BP2434-4   |
| 1X  | 20L   | BP2434-20  |
| 10X   | 500mL | BP1335-500 |
| 10X   | 1L    | BP1335-1   |
| 10X   | 4L    | BP1335-4   |
| 10X   | 20L   | BP1335-20  |
| 25X   | 1L    | BP1330-1   |
| 50X   | 500mL | BP1332-500 |
| 50X   | 1L    | BP1332-1   |
| 50X   | 4L    | BP1332-4   |
| 50X   | 20L   | BP1332-20  |
| 25X   | 1L**  | BP1331-1   |
| <b>MOPS Buffer</b>                                |       |            |
| Powder  | 100g  | BP308-100  |
| Powder  | 500g  | BP308-500  |
| 10X Buffer Solution                               | 500mL | BP2900-500 |
| 10X Buffer Solution                               | 1L    | BP2900-1   |
| <b>Buffers for Hybridization of Nucleic Acids</b> |       |            |
| <b>SSPE Saline-Sodium Phosphate-EDTA</b>          |       |            |
| 20X   | 1L    | BP1328-1   |
| 20X   | 4L    | BP1328-4   |
| <b>SSC Saline-Sodium Citrate</b>                  |       |            |
| 20X   | 1L    | BP1325-1   |
| 20X   | 4L    | BP1325-4   |
| 20X   | 20L   | BP1325-20  |

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

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

## Helpful Formulas for Making Buffers with Fisher Bioreagents™ Dry Powders



$$\text{Molarity (mol/L)} = \frac{\text{moles of solute (mol)}}{\text{liters of solution (L)}}$$

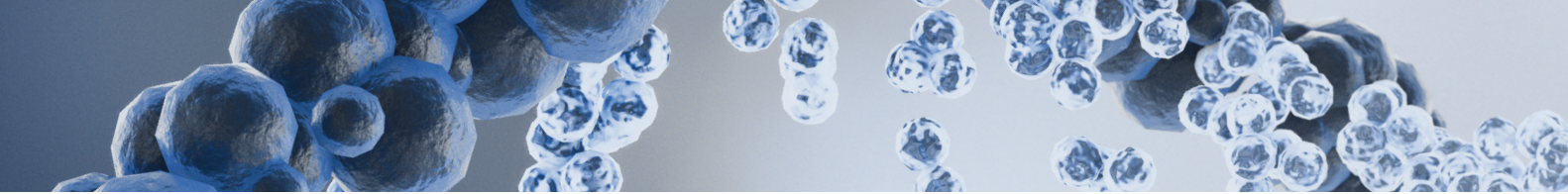
$$\text{Final Solution Volume (L)} \times \text{Molarity (mol/L)} \times \text{Molar Mass (g/mol)} = \text{Grams needed for Solution (g)}$$

High-purity water is a staple solvent used in all life sciences labs, and the Fisher Bioreagents product line has water tested to the specifications that you need.

### Choose the Right Water for Your Life Sciences Application:

| Description                         | Size  | Cat. No.  | DEPC | Autoclaved | Purity Specifications |                 |                 |           |
|-------------------------------------|-------|-----------|------|------------|-----------------------|-----------------|-----------------|-----------|
|                                     |       |           |      |            | 0.2µm Filtered        | 0.03µm Filtered | 0.03µm Filtered | Deionized |
| Water, DNA Grade                    | 1L    | BP24701   |      | X          | X                     |                 |                 |           |
| Water, Nuclease Free                | 100mL | BP2484100 | X    | X          | X                     |                 |                 |           |
| Water, Nuclease Free                | 50mL  | BP248450  | X    | X          | X                     |                 |                 |           |
| Water, Biotech Grade                | 20L   | BP248520  |      |            | X                     |                 |                 |           |
| Water, Biotech Grade                | 4L    | BP24854   |      |            | X                     |                 |                 |           |
| Water, Molecular Biology Grade      | 1L    | BP28191   |      |            |                       | X               |                 | X         |
| Water, Molecular Biology Grade      | 10L   | BP281910  |      |            |                       | X               |                 | X         |
| Water, Molecular Biology Grade      | 100mL | BP2819100 |      |            |                       | X               |                 | X         |
| Water, Molecular Biology Grade      | 20L   | BP281920  |      |            |                       | X               |                 | X         |
| Water, Molecular Biology Grade      | 4L    | BP28194   |      |            |                       | X               |                 | X         |
| Water, Microbial Cell Culture Grade | 1L    | BP28201   |      | X          |                       |                 | X               |           |
| Water, Microbial Cell Culture Grade | 100mL | BP2820100 |      | X          |                       |                 | X               |           |
| Water, Microbial Cell Culture Grade | 500mL | BP2820500 |      | X          |                       |                 | X               |           |
| Water, qPCR Grade                   | 1L    | BP28251   |      |            |                       |                 | X               |           |
| Water, qPCR Grade                   | 10L   | BP282510  |      |            |                       |                 | X               |           |
| Water, RNA Grade                    | 1L    | BP5611    | X    | X          | X                     |                 |                 |           |

| Description                         | Size  | Cat. No.  | Total Aerobic Microbial Count | Total Yeast & Mold Count | Endotoxin | Activity Specifications |            |               |              |                   |                     |
|-------------------------------------|-------|-----------|-------------------------------|--------------------------|-----------|-------------------------|------------|---------------|--------------|-------------------|---------------------|
|                                     |       |           |                               |                          |           | DNase Free              | RNase Free | Protease Free | Nickase Free | Human Genomic DNA | E. coli Genomic DNA |
| Water, DNA Grade                    | 1L    | BP24701   |                               |                          |           | X                       |            | X             |              |                   |                     |
| Water, Nuclease Free                | 100mL | BP2484100 |                               |                          |           | X                       | X          | X             |              |                   |                     |
| Water, Nuclease Free                | 50mL  | BP248450  |                               |                          |           | X                       | X          | X             |              |                   |                     |
| Water, Biotech Grade                | 20L   | BP248520  |                               |                          |           |                         |            |               |              |                   |                     |
| Water, Biotech Grade                | 4L    | BP24854   |                               |                          |           |                         |            |               |              |                   |                     |
| Water, Molecular Biology Grade      | 1L    | BP28191   |                               |                          |           | X                       | X          | X             |              |                   |                     |
| Water, Molecular Biology Grade      | 10L   | BP281910  |                               |                          |           | X                       | X          | X             |              |                   |                     |
| Water, Molecular Biology Grade      | 100mL | BP2819100 |                               |                          |           | X                       | X          | X             |              |                   |                     |
| Water, Molecular Biology Grade      | 20L   | BP281920  |                               |                          |           | X                       | X          | X             |              |                   |                     |
| Water, Molecular Biology Grade      | 4L    | BP28194   |                               |                          |           | X                       | X          | X             |              |                   |                     |
| Water, Microbial Cell Culture Grade | 1L    | BP28201   | X                             | X                        | X         |                         |            |               |              |                   |                     |
| Water, Microbial Cell Culture Grade | 100mL | BP2820100 | X                             | X                        | X         |                         |            |               |              |                   |                     |
| Water, Microbial Cell Culture Grade | 500mL | BP2820500 | X                             | X                        | X         |                         |            |               |              |                   |                     |
| Water, qPCR Grade                   | 1L    | BP28251   | X                             | X                        | X         | X                       | X          | X             | X            | X                 | X                   |
| Water, qPCR Grade                   | 10L   | BP282510  | X                             | X                        | X         | X                       | X          | X             | X            | X                 | X                   |
| Water, RNA Grade                    | 1L    | BP5611    |                               |                          |           | X                       | X          | X             |              |                   |                     |



| Description   | Size  | Cat. No.   |
|---|-------|------------|
| Ammonium Phosphate Dibasic (Colorless Crystals)   | 500g  | BP361-500  |
| Ammonium Acetate (White Crystals)   | 1kg   | BP326-1    |
|   | 500g  | BP326-500  |
| Ammonium Sulfate  | 1kg   | BP212-R1   |
|   | 2.5kg | BP212-212  |
| Calcium Chloride Dihydrate (White Crystals to Powder)                                   | 100g  | BP510-100  |
|   | 250g  | BP510-250  |
|   | 500g  | BP510-500  |
| Cesium Chloride (White Crystalline Powder for Molecular Biology)                        | 100g  | BP210-100  |
|   | 1kg   | BP210-1    |
|   | 500g  | BP210-500  |
| Cesium Chloride (Crystalline Powder)  | 500g  | BP1595-500 |
|   | 1kg   | BP1595-1   |
| Potassium Phosphate Dibasic (Fine White Crystalline Powder)                             | 1kg   | BP363-1    |
|   | 500g  | BP363-500  |
| Potassium Phosphate Monobasic (White Crystals)  | 1kg   | BP362-1    |
|   | 500g  | BP362-500  |
| Potassium Acetate (Colorless Crystals or Powder)  | 500g  | BP364-500  |
| Potassium Carbonate Anhydrous (White Granular Powder)                                   | 500g  | BP365-500  |
| Potassium Chloride (White Crystals)   | 1kg   | BP366-1    |
|   | 500g  | BP366-500  |
| Potassium Iodide (White, Free-Flowing Granules)   | 500g  | BP367-500  |
| Potassium Nitrate (Colorless-to-White Crystals)   | 500g  | BP368-500  |
| Silver Nitrate (Crystals for Molecular Biology)   | 100g  | BP2546-100 |
| Sodium Phosphate Monobasic Monohydrate (Colorless-to-white Crystals)                    | 1kg   | BP330-1    |
|   | 500g  | BP330-500  |
| Sodium Phosphate Dibasic Heptahydrate (Colorless-to-White Crystals), Fisher Bioreagents | 1kg   | BP331-1    |
|   | 500g  | BP331-500  |
| Sodium Phosphate Dibasic Anhydrous (White Granules or Powder)                           | 1kg   | BP332-1    |
|   | 500g  | BP332-500  |
| Sodium Acetate Anhydrous (White Crystals or Granular Powder)                            | 1kg   | BP333-1    |
|   | 500g  | BP333-500  |
| Sodium Acetate Trihydrate (Colorless-to-white Crystals)                                 | 1kg   | BP334-1    |
|   | 500g  | BP334-500  |
| Sodium Azide (White Powder)   | 500g  | BP9221-500 |
| Sodium Bicarbonate (Fine White Powder)  | 1kg   | BP328-1    |
|   | 500g  | BP328-500  |
| Sodium Carbonate (White Crystalline Powder)   | 1kg   | BP357-1    |
| Sodium Chloride   | 10kg  | BP358-10   |
|   | 1kg   | BP358-1    |
|   | 2.5kg | BP358-212  |
| Sodium Citrate Dihydrate (Small, Colorless Granules)                                    | 1kg   | BP327-1    |
|   | 500g  | BP327-500  |
| Sodium Iodide (White Crystals for Molecular Biology)                                    | 100g  | BP323-100  |
| Sodium Nitrate (Colorless Crystals)   | 500g  | BP360-500  |
| Sodium Persulfate, >98% (White Crystalline Powder)                                      | 1kg   | BP2637-1   |
| Sodium Phosphate Monobasic Anhydrous (Colorless-to-White Crystals)                      | 1kg   | BP329-1    |
|   | 500g  | BP329-500  |
| Sodium Pyruvate (White Powder)  | 100g  | BP356-100  |
| Sodium Sulfate Anhydrous (White Granules)   | 500g  | BP354-500  |
| Sodium Sulfite Anhydrous (White Crystals or Crystalline Powder)                         | 500g  | BP355-500  |
| Sodium Tartrate Dihydrate (Colorless Crystals)  | 500g  | BP352-500  |



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