

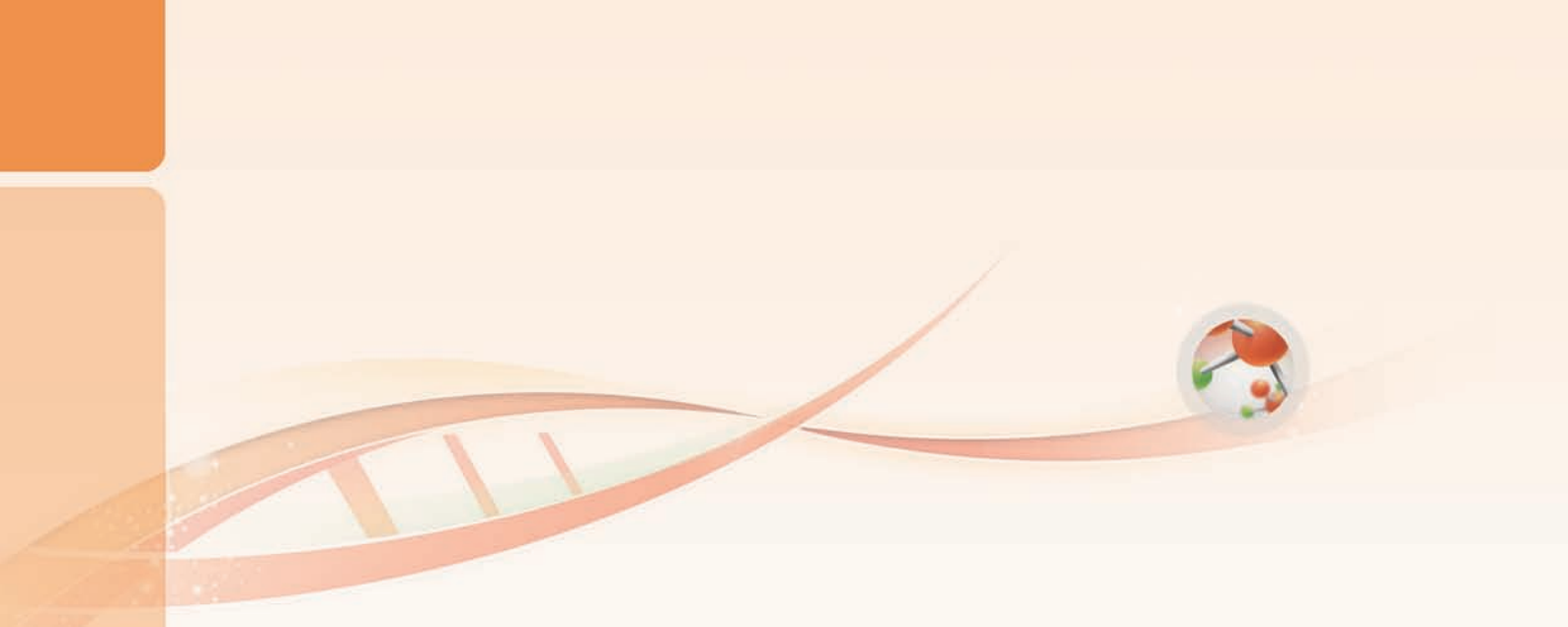


Buffers & Chemicals

Buffers
Chemicals



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01

Buffers ●●●

Buffers351

Overview

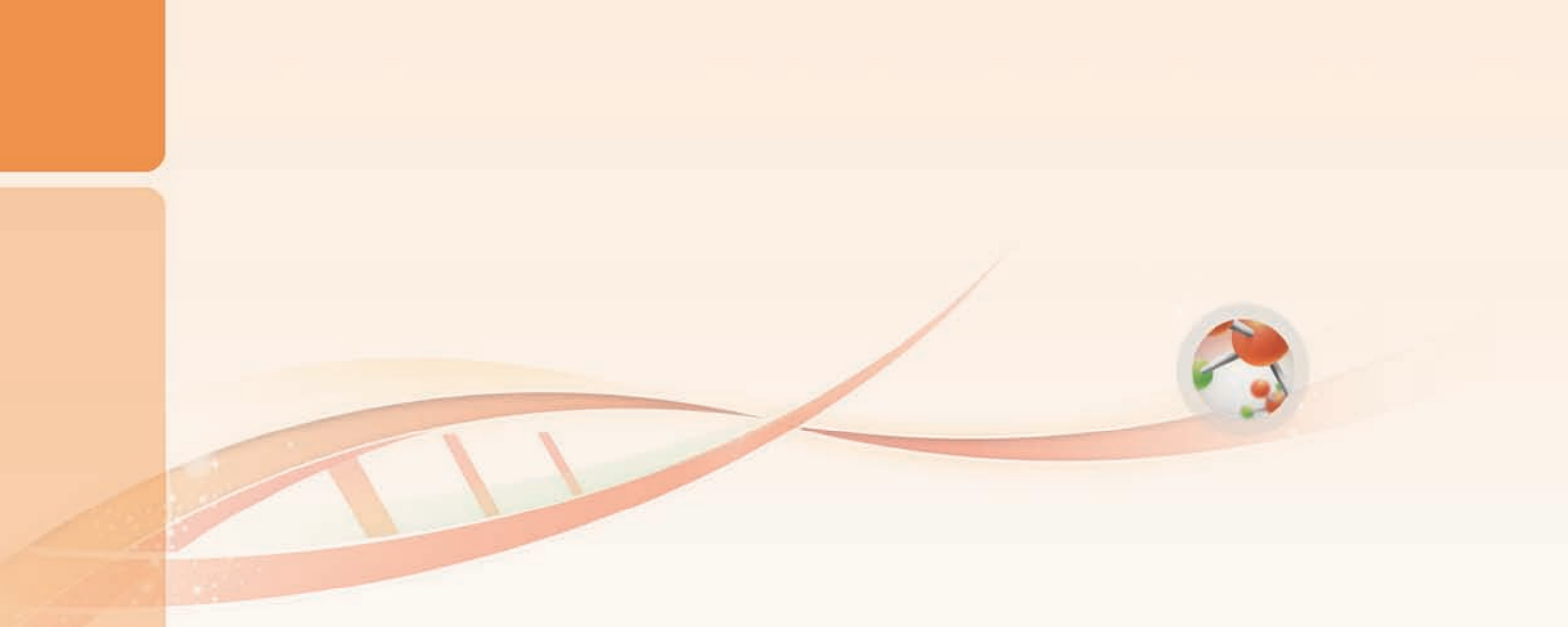
Bioneer produces over 40 types of buffer and chemical essential for life science research. Those are needed for fundamental experiments, electrophoresis buffers, and phenols used in DNA/RNA extraction.

All Bioneer buffers and chemicals are produced under a strict quality control system and are provided to customers only after passing the most stringent quality tests. Bioneer's dependable buffers and chemicals will be at your service all the time.

| Product | Size | Description | Cat. no. |
|----------------------------|--------|---|----------|
| 40% Acrylamide | 500 ml | For acrylamide gel electrophoresis Acrylamide Bis-acrylamide Filtered with 0.2 µm pore size Store at 4°C | C-9001 |
| 5X TBE | 1 Gal | For agarose & acrylamide gel electrophoresis Trizma base Boric acid 0.5 M EDTA (pH 8.0) Store at room temperature | C-9002 |
| 20X SSC | 500 ml | For hybridization Sodium chloride Sodium citrate Adjust the pH to 7.0 with HCl Autoclaved and DNase free Store at room temperature | C-9003 |
| 50X TAE | 500 ml | For agarose gel electrophoresis Trizma base Acetic acid 0.5 M EDTA (pH 8.0) Autoclaved and DNase free Store at room temperature | C-9004 |
| TE (pH 8.0) | 500 ml | 10 mM Tris-HCl (pH 8.0) 1 mM EDTA Autoclaved and DNase free Store at room temperature | C-9005 |
| 1M Tris-HCl(pH 8.0) | 500 ml | Trizma base Adjust the pH to 8.0 with HCl Autoclaved and DNase free Store at room temperature | C-9006 |
| 1M Tris-HCl (pH 7.6) | 500 ml | Trizma base Adjust the pH to 7.6 with HCl Autoclaved and DNase free Store at room temperature | C-9006-1 |
| 1M Tris-HCl (pH 7.4) | 500 ml | Trizma base Adjust the pH to 7.4 with HCl Autoclaved and DNase free Store at room temperature | C-9006-2 |
| 0.5 M EDTA (pH 8.0) | 500 ml | EDTA Adjust the pH to 8.0 with NaOH Autoclaved and DNase free Store at room temperature | C-9007 |
| 3M Sodium Acetate (pH 5.2) | 500 ml | Sodium acetate Adjust the pH to 5.2 with acetic acid Autoclaved and DNase free Store at room temperature | C-9008 |

| Product | Size | Description | Cat. no. |
|--|--------|---|----------|
| EtBr (10 mg/ml) | 25 ml | Ethidium bromide Distilled water Store at 4°C | C-9009 |
| Deionized sterile DW | 500 ml | Third distilled Water Filtered with 0.2 µm pore size Autoclaved and DNase free Store at room temperature | C-9011 |
| Deionized sterile DW | 1 gal | Third distilled Water Filtered with 0.2 µm pore size Autoclaved and DNase free Store at room temperature | C-9011-1 |
| Deionized Formamide | 500 ml | Assay 99.7% Hygroscopic CH ₃ NO/FW : 45.04 Store at 4°C | C-9012 |
| Equilibrated Phenol B | 500 ml | Suitable for use in DNA purification Saturated with 0.1M Tris-HCl (pH 8.0) 1 mM EDTA, phenol phase is pH 8.0±0.2 C ₆ H ₆ O/FW : 94.1 Store at 4°C | C-9015 |
| 25:24:1 Phenol : Chloroform : Isoamylalcohol | 500 ml | Suitable for use in DNA purification Saturated with 0.1 M Tris-HCl (pH 8.0) phenol phase is pH 8.0±0.2 Phenol:Chloroform:Isoamylalcohol(25:24:1) Store at 4°C | C-9017 |
| 1M MgCl ₂ (Magnesium Chloride) | 500 ml | MgCl ₂ ·6H ₂ O Autoclaved and DNase free Dispense into aliquots Store at 4°C | C-9022 |
| Phosphate-buffered saline(PBS) | 500 ml | Sodium chloride Potassium chloride Na ₂ HPO ₄ KH ₂ PO ₄ Adjust the pH to 7.4 with HCl Autoclaved and DNase free Store at room temperature | C-9024 |
| 5M NaCl (Sodium chloride) | 500 ml | Sodium chloride Autoclaved and DNase free Store at room temperature | C-9025 |
| 1M KCl (Potassium chloride) | 500 ml | Potassium chloride Autoclaved Autoclaved and DNase free Store at room temperature | C-9026 |
| 10% Sodium dodecyl sulfate(SDS,Sodium lauryl sulfate) | 500 ml | SDS Heat to 68°C to assist dissolution Adjust the pH to 7.0 with HCl Store at room temperature | C-9027 |

| Product | Size | Description | Cat. no. |
|--------------------------------------|--------|---|----------|
| 6X Agarose Gel Loading Buffer | 2 ml | For DNA electrophoresis 40% Sucrose 0.05% Bromophenol blue 0.05% Xylene cyanol FF Store at -20°C | C-9029 |
| DEPC-DW | 500 ml | For RNA Water DEPC(Diethyl pyrocarbonate) Stirred for overnight Autoclaved and DNase, RNase free Store at room temperature | C-9030 |
| 10X MOPs Buffer | 500 ml | For denaturing agarose gel electrophoresis(for RNA) 200 mM MOPs 50 mM Sodium acetate (pH 7.0),10 mM EDTA Autoclaved and DNase free Store at room temperature | C-9031 |
| RNA Loading Buffer (without EtBr) | 2 ml | For RNA electrophoresis Deionized formamide Formaldehyde 10X MOPs buffer 500 mM EDTA (pH 7.4) 0.025% Xylene cyanol FF 0.025% Bromophenol blue Store at -20°C | C-9032 |
| 10N NaOH (Sodium hydroxide) | 500 ml | Sodium hydroxide Store at room temperature | C-9034 |



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Chemicals ●●●

Chemicals355

IPTG (Isopropyl- β -D-thiogalactopyranoside)

IPTG is an inducer of β -galactosidase activity in many bacteria. It binds and inhibits lac repressor which prevents transcription of lac operon. IPTG-repressor complex does not bind to lac gene. IPTG is soluble in water.

| Product | Size | Description | Cat. no. |
|--|------|--|----------|
| IPTG, 99% (Isopropyl- β -D-thiogalactopyranoside) | 1 g | Formula : $C_9H_{18}O_5S$ M.W. : 238.3 Form : Dry powder Store at 4°C | C-8001 |
| IPTG, 99% (Isopropyl- β -D-thiogalactopyranoside) | 5 g | same as above | C-8001-1 |
| IPTG, 99% (Isopropyl- β -D-thiogalactopyranoside) | 25 g | same as above | C-8001-2 |

X-Gal (5-Bromo-4chloro-3-indolyl- β -D-galactopyranoside)

X-Gal is a histochemical substrate for β -galactosidase activity which is expressed in lac gene. It is hydrolyzed in the presence of this enzyme. Colonies grown on agar medium containing X-Gal produce blue color. X-Gal is soluble in Dimethyl formamide (DMF).

| Product | Size | Description | Cat. no. |
|--|--------|---|----------|
| X-Gal(5-Bromo-4-chloro-3indolyl- β -D-galactopyranoside) | 100 mg | Formula : $C_{14}H_{15}BrClNO_6$ M.W. : 408.6 Concentration: 50 mg/ml in dimethylformamide, Store at -20°C | C-8002 |
| X-Gal(5-Bromo-4-chloro-3indolyl- β -D-galactopyranoside) | 500 mg | Same as above | C-8002-1 |

Agarose

| Product | Size | Description | Cat. no. |
|---------|-------|---|----------|
| Agarose | 100 g | Form : White powder Sulphate < 0.01% Gel strength (1.5%) > 1,600 g/cm ² Melting temp (1.5%) 88 ~ 90°C Gel temp (1.5%) 37 ~ 39°C Store at room temperature | C-9100 |
| Agarose | 500 g | Same as above | C-9100-1 |

