



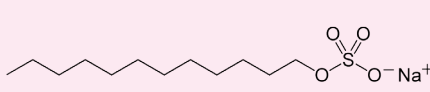
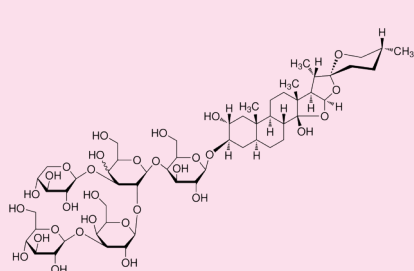
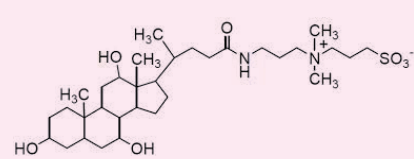
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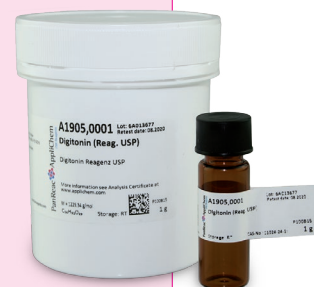
General Biochemicals Promotion

15 Sep – 31 January, 2019

-36%
on all

Detergents

Description	Code	Application
<p>SDS for molecular biology</p> <p>Code: APA2263</p>		
<p>SDS ultrapure</p> <p>Code: APA1112</p>		<p>Anionic detergent used in basic research techniques</p> <p>Sodium lauryl sulfate, in science referred to as sodium <i>dodecyl</i> sulfate (SDS), is used in cleaning procedures, and is commonly used as a component for lysing cells during RNA extraction and/or DNA extraction, and for denaturing proteins in preparation for electrophoresis in the SDS-PAGE technique.</p>
<p>SDS Biochemica</p> <p>Code: APA2572</p> 		
<p>Digitonin (Reagent USP) BioChemica</p> <p>Code: APA1905</p> 		<p>Non-ionic surfactant from the group of saponins, isolated from the seeds of <i>Digitalis purpurea</i></p> <p>Used for:</p> <ul style="list-style-type: none"> • Solubilisation of membrane proteins • Isolation of mitochondria • Permeabilisation of cell membranes • Precipitation of cholesterol • Studies of Ca²⁺
<p>CHAPS BioChemica</p> <p>Code: APA1099</p> 		<p>Zwitterionic Biodetergent</p> <p>Used in the laboratory to solubilize biological macromolecules such as proteins. It is used as a non-denaturing solvent in the process of protein purification and is especially useful in purifying membrane proteins, which are often sparingly soluble or insoluble in aqueous solution due to their native hydrophobicity. It has low light absorbance in the ultraviolet region of the electromagnetic spectrum, which is useful for laboratory workers monitoring ongoing chemical reactions or protein-protein binding with UV/Vis spectroscopy.</p>



Buffer substances

Description	Code	Application
Ammonium Sulfate for molecular biology	APA3485	Ammonium sulfate precipitation is a common method for protein purification. As the ionic strength of a solution increases, the solubility of proteins in that solution decreases. Ammonium sulfate is extremely soluble in water due to its ionic nature, therefore it can "salt out" proteins by precipitation.
Ammonium Sulfate BioChemica	APA1032	
Glycine for molecular biology	APA1067	Component of the Laemmli buffer (A1415) for SDS-PAGE of proteins; interferes with protein assays according to Lowry (>1mM) and Bradford (>100mM).
Guanidine Hydrochloride for molecular biology	APA1106	Chaotropic renaturation or denaturation agent for proteins in Biochemistry.
Guanidine Thiocyanate BioChemica	APA4335	Guanidinium thiocyanate or Guanidinium IsoThioCyanate (GITC). Used as a general protein denaturant, being a chaotropic agent, commonly used as a Nucleic Acid protector in the extraction of DNA and RNA and to lyse cells and viruses in nucleic acid extractions.
HEPES for molecular biology	APA3724	Zwitterionic "Good" buffer; widely used in biological studies. In cell culture media, it is employed as a substitute or supplement for the bicarbonate buffer.
HEPES for buffer solutions	APA1069	
MOPS for molecular biology	APA2947	Zwitterionic "Good" buffer with low ion binding. Interferes with Lowry assay.
di-Sodium Hydrogen Phosphate anhydrous BioChemica	APA1046	Substrate/inhibitor of various enzymes; precipitates bivalent cations; pKa increases on dilution, but is only slightly depending on the temperature.
Tris for molecular biology	APA2264	Tris base. The most frequently used buffer in biological research. Most important applications: electrophoresis buffer TBE (A0972), TAE (A1416) and Laemmli buffer (A1415), DNA-stabilizing TE buffer (pH 8, A0973), TBS buffer for Western Blots and ELISA. The pH value strongly depends on temperature and decreases with dilution. Tris is a primary amine and may form Schiff bases with aldehydes/ketones. It inactivates DEPC and is involved in some enzymatic reactions (e.g. alkaline phosphatase). Tris is toxic for mammalian cells and should not be used in cell culture.
Tris ultrapure	APA1086	



Chemicals for Bioresearch

Description	Code	Application
Bradford - Solution for protein determination	APA6932	The Bradford assay is very fast. It is fairly accurate and samples that are out of range can be retested within minutes. It is recommended for general use, especially for determining protein content of cell fractions and assessing protein concentrations for gel electrophoresis. The assay is a simple procedure for determination of total protein concentrations in solutions that depends upon the change in absorbance based on the proportional binding of the dye Coomassie Blue G-250 to proteins.
Chloroform BioChemica	APA3691	Chloroform is widely used in the separation of proteins, DNA and RNA. It is part of the phenol-chloroform extraction and a basic reagent used in Life Science.
Glycerol anhydrous for molecular biology	APA2926	Glycerol can be used in sample preparation and gel formation for polyacrylamide gel electrophoresis. Glycerol (in a range of 5-10%) increases the density of a sample so that the sample will layer at the bottom of a gel's sample well. Glycerol is also used to aid in gradient gels and as a protein stabilizer and storage buffer component. It is widely used as a supporting agent when freezing cells. Sometimes it is used as an additive to cell culture.
Glycerol anhydrous BioChemica	APA1123	
Glycerol 87 % for molecular biology	APA3739	
Glycerol 87 % BioChemica	APA0970	
β-Mercaptoethanol for molecular biology	APA1108	Some proteins can be denatured by 2-mercaptoethanol, which cleaves the disulfide bonds that may form between thiol groups of cysteine residues. By breaking the S-S bonds, both the tertiary structure and the quaternary structure of some proteins can be disrupted. Because of its ability to disrupt the structure of proteins, it was used in the analysis of proteins, for instance, to ensure that a protein solution contains monomeric protein molecules, instead of disulfide linked dimers. 2-Mercaptoethanol and related reducing agents (e.g., DTT) are often included in enzymatic reactions to inhibit the oxidation of free sulfhydryl residues, and hence maintain protein activity. It is used in several enzyme assays as a standard buffer. 2-Mercaptoethanol is used in some RNA isolation procedures to eliminate ribonuclease released during cell lysis.
Potassium Acetate for molecular biology	APA4279	In molecular biology, potassium acetate is used to precipitate dodecyl sulfate (DS) and DS-bound proteins, allowing the removal of proteins from DNA. It is also used as a salt for the ethanol precipitation of DNA.



Description	Code	Package
Ammonium Sulfate for molecular biology	APA34851000	1 kg
	APA34855000	5 kg
Ammonium Sulfate BioChemica	APA10321000	1 kg
	APA10325000	5 kg
Bradford - Solution for Protein Determination	APA69320100	100 ml
	APA69320250	250 ml
	APA69320500	500 ml
CHAPS BioChemica	APA10990005	5 g
	APA10990025	25 g
	APA10990050	50 g
Chloroform BioChemica	APA36911000	1 L
Digitonin (Reagent USP) BioChemica	APA19050100	100 mg
	APA19050500	500 mg
	APA19050001	1 g
Glycerol anhydrous for molecular biology	APA29260500	500 ml
	APA29261000	1 L
	APA29262500	2.5 L
Glycerol anhydrous BioChemica	APA11231000	1 L
	APA11232500	2.5 L
Glycerol 87 % for molecular biology	APA37391000	1 L
Glycerol 87 % BioChemica	APA09701000	1 L
	APA09705000	5 L
Glycine for molecular biology	APA10670500	500 g
	APA10671000	1 kg
	APA10675000	5 kg
	APA10679010	10 kg
Guanidine Hydrochloride for molecular biology	APA11061000	1 kg
Guanidine Thiocyanate BioChemica	APA43351000	1 kg
	APA37240250	250 g
HEPES for molecular biology	APA37240500	500 g
	APA37241000	1 kg
	APA10690100	100 g
HEPES for buffer solutions	APA10690250	250 g
	APA10690500	500 g
	APA10691000	1 kg
	APA10695000	5 kg
	APA11080025	25 ml
β-Mercaptoethanol Molecular biology grade	APA29470100	100 g
	APA29470500	500 g
	APA29471000	1 kg
MOPS for molecular biology	APA42790500	500 g
	APA42791000	1 kg
Potassium Acetate for molecular biology	APA22630100	100 g
	APA22630500	500 g
SDS for molecular biology	APA22631000	1 kg
	APA11120100	100 g
SDS ultrapure	APA11120500	500 g
	APA11121000	1 kg
	APA25720250	250 g
SDS BioChemica	APA25720500	500 g
	APA25721000	1 kg
	APA10461000	1 kg
di-Sodium Hydrogen Phosphate anhydrous BioChemica	APA10465000	5 kg
	APA22640500	500 g
Tris for molecular biology	APA22641000	1 kg
	APA22645000	5 kg
	APA10860500	500 g
Tris ultrapure	APA10861000	1 kg
	APA10865000	5 kg

Promotion valid from September 15 2019 to January 31, 2020

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