General biochemicals, biological buffers and detergents

General biochemicals

In Life Sciences there are several biochemicals that can be used in different workflows.

At ITW Reagents we categorize them as general biochemicals and they can be used for **biological research, biochemical workflows and bioanalysis.**

Below you will find a list of **PanReac AppliChem** branded biochemicals that are specially designed for these purposes and meet the highest quality requirements.

Product code	Product name	CAS number	Pack sizes
A3701	Acetic Acid 100% BioChemica	64-19-7	1 L, 2.5 L
A2940	Boric Acid for molecular biology	10043-35-3	1 kg
A6932	Bradford - Solution for protein determination		500 mL
A4689	Calcium Chloride 2-hydrate for molecular biology	10035-04-8	250 g
A3691	Chloroform BioChemica	67-66-3	1 L
A3678	Ethanol absolute for molecular biology	64-17-5	250 mL, 500 mL, 1 L, 2.5 L
A8075	Ethanol absolute for molecular biology (untaxed)	64-17-5	1 L, 2.5 L
A1422	D(+)-Glucose anhydrous BioChemica	50-99-7	1 kg, 5 kg
A1349	D(+)-Glucose 1-hydrate BioChemica	77938-63-7	5 kg
A2926	Glycerol anhydrous for molecular biology	56-81-5	500 mL, 1 L, 2.5 L
A1123	Glycerol anhydrous BioChemica	56-81-5	1 L, 2.5 L
A3739	Glycerol 87% for molecular biology	56-81-5	1 L
A0970	Glycerol 87% BioChemica	56-81-5	1 L, 5 L
A1108	β-Mercaptoethanol for molecular biology	60-24-2	100 mL
A3493	Methanol BioChemica	67-56-1	1 L, 5 L
A3872	Potassium Iodide BioChemica	7681-11-0	500 g
A3928	2-Propanol for molecular biology	67-63-0	500 mL, 1 L, 2.5 L
A3465	2-Propanol BioChemica	67-63-0	2.5 L, 5 L
A1430	Sodium Azide pure	26628-22-8	100 g, 500 g, 1 kg
A6579	Sodium Hydroxide 1 mol/L (1 M) for molecular biology	1310-73-2	1 L
A1530	Sodium Pyruvate for analysis	113-24-6	1 kg
A0544	di-Sodium Tetraborate anhydrous pure	1330-43-4	25 kg
A7398	Water for molecular biology	7732-18-5	500 mL, 1 L, 5 L
A4042	Water bidistilled, sterile	7732-18-5	500 mL, 1 L

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Biological buffers

Many biochemical processes are significantly impaired even by small changes in the pH value. Therefore, it is often necessary to stabilize the pH value by adding a suitable buffer to the medium, without affecting the system under investigation.

Criteria for the selection of the right buffer system:

- Selection of the buffer for the correct **pH range**
- Determination of the optimal **pH of an enzyme**
- Determination of the optimal **buffer concentration**
- Selection of buffer substances according to the **application**

Product code	Product name	CAS number	Pack sizes
A1060	ACES for buffer solutions	7365-82-4	1 kg
A3485	Ammonium Sulfate for molecular biology	7783-20-2	1 kg, 5 kg
A1032	Ammonium Sulfate BioChemica	7783-20-2	1 kg, 5 kg
A1025	Bis-Tris for buffer solutions	6976-37-0	250 g, 500 g, 1 kg
A1065	CHES for buffer solutions	103-47-9	250 g
A5097	EDTA for molecular biology	60-00-4	500 g
A1103	EDTA BioChemica	60-00-4	1 kg
A4892	EDTA - Solution pH 8.0 (0.5 M) for molecular biology	6381-92-6	100 mL, 500 mL, 1 L
A3145	EDTA - Solution pH 8.0 (0.5 M)	6381-92-6	1 L
A2937	EDTA Disodium Salt 2-hydrate for molecular biology	6381-92-6	500 g, 1 kg
A1067	Glycine for molecular biology	56-40-6	1 kg, 5 kg
A1106	Guanidine Hydrochloride for molecular biology	50-01-1	1 kg
A1499	Guanidine Hydrochloride BioChemica	50-01-1	1 kg, 5 kg, 10 kg, 25 kg
A3240	Guanidine Hydrochloride ultrapure	50-01-1	500 g, 1 kg
A0860	Guanidine Hydrochloride 8 mol/L (8 M) BioChemica	50-01-1	500 mL
A1107	Guanidine Thiocyanate for molecular biology	593-84-0	500 g, 1 kg, 5 kg, 25 kg
A0703	Guanidine Thiocyanate solution (6 M in 0.1 M Tris; pH 7.5) for molecular biology	593-84-0	1 L
A3724	HEPES for molecular biology	7365-45-9	250 g, 500 g, 1 kg
A1069	HEPES for buffer solutions	7365-45-9	100 g, 500 g, 1 kg, 5 kg, 25 kg
A6916	HEPES buffer pH 7.5 (1 M) sterile	7365-45-9	250 mL
A6906	HEPES buffer pH 8.0 (1 M) sterile	7365-45-9	250 mL
A1073	Imidazole for buffer solutions	288-32-4	500 g, 1 kg
A3635	Imidazole ultrapure	288-32-4	100 g, 250 g
A0689	MES anhydrous BioChemica	4432-31-9	250 g, 500 g, 1 kg
A1074	MES 1-hydrate for buffer solutions	145224-94-8	250 g, 1 kg
A2947	MOPS for molecular biology	1132-61-2	500 g, 1 kg
A1076	MOPS for buffer solutions	1132-61-2	250 g, 1 kg, 5 kg
A9202	PBS tablets pH 7.2 (for 1 L)		10 tabs, 100 tabs
A9162	PBS tablets pH 7.4 (for 100 mL)		100 tabs
A9177	PBS tablets pH 7.4 (for 200 mL)		100 tabs
A9191	PBS tablets pH 7.4 (for 500 mL)		100 tabs
A1079	PIPES for buffer solutions	5625-37-6	500 g
A2939	Potassium Chloride for molecular biology	7447-40-7	500 g
A1042	di-Potassium Hydrogen Phosphate anhydrous BioChemica	7758-11-4	1 kg

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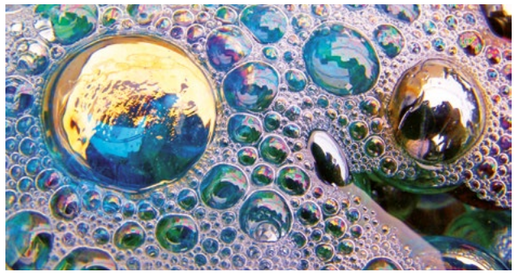
Product code	Product name	CAS number	Pack sizes
A1043	Potassium di-Hydrogen Phosphate BioChemica	7778-77-0	1 kg, 5 kg
A4555	Sodium Acetate anhydrous for molecular biology	127-09-3	1 kg
A2942	Sodium Chloride for molecular biology	7647-14-5	1 kg, 5 kg
A7006	Sodium Chloride 5 mol/L (5 M) for molecular biology	7647-14-5	1 L
A1046	di-Sodium Hydrogen Phosphate anhydrous BioChemica	7558-79-4	1 kg, 5 kg
A1084	TES for buffer solutions	7365-44-8	1 kg
A1431	Trichloroacetic Acid (TCA) BioChemica	76-03-9	1 kg
A0590	Trichloroacetic Acid - Solution 20% BioChemica	76-03-9	1 L
A1085	Tricine BioChemica	5704-04-1	250 g, 1 kg, 5 kg
A0697	Trifluoroacetic Acid BioChemica	76-05-1	100 mL
A2264	Tris for molecular biology	77-86-1	500 g, 1 kg, 5 kg
A1379	Tris for buffer solutions	77-86-1	1 kg, 5 kg
A4263	Tris buffer pH 7.5 (1 M) for molecular biology	77-86-1	500 mL
A4577	Tris buffer pH 8.0 (1 M) for molecular biology	77-86-1	1 L
A3452	Tris Hydrochloride for molecular biology	1185-53-1	500 g, 1 kg
A1087	Tris Hydrochloride for buffer solutions	1185-53-1	500 g, 1 kg, 5 kg
A1086	Tris ultrapure	77-86-1	1 kg, 5 kg, 10 kg
A1049	Urea for molecular biology	57-13-6	1 kg, 5 kg, 25 kg
A1360	Urea BioChemica	57-13-6	10 kg

Detergents

Detergents are widely used in biochemistry, cell biology or molecular biology.



Cell lysis, protein solubilization, protein crystallization or reduction of background staining in blotting experiments are just a few of numerous applications detergents are used for.

Product code	Product name	CAS number	Pack sizes
A6284	Cetyltrimethylammonium Bromide (CTAB) for molecular biology	57-09-0	500 g
A0805	Cetyltrimethylammonium Bromide (CTAB) BioChemica	57-09-0	100 g, 500 g
A1099	CHAPS BioChemica	75621-03-3	5 g, 50 g
A1905	Digitonin (Reag. USP)	11024-24-1	1 g, 5 g
A0819	n-Dodecyl-β-D-Maltoside BioChemica	69227-93-6	5 g
A3457	N-Lauroylsarcosinate - Solution 30% pure	137-16-6	500 mL
A0893	Lecithin from Egg BioChemica	8002-43-5	100 g, 500 g
A2218	Lecithin from Soybean 90%	8002-43-5	100 g
A1010	n-Octyl-β-D-Glucopyranoside BioChemica	29836-26-8	25 g
A1288	Pluronic® F-68 BioChemica	9003-11-6	500 g, 10 kg
A4518	Saponin from Quillaja Bark (DAB) pure, pharma grade	8047-15-2	100 g
A2542	Saponin from Quillaja Bark pure	8047-15-2	500 g, 1 kg
A2263	SDS for molecular biology	151-21-3	100 g, 500 g, 1 kg
A2572	SDS BioChemica	151-21-3	250 g, 1 kg
A1112	SDS ultrapure	151-21-3	100 g, 500 g, 1 kg
A7249	SDS grained pure	151-21-3	1 kg, 5 kg

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