

Buffers



Buffers are aqueous solutions of weak acids and their conjugate bases, or weak bases and their conjugate acids. Buffers show little change in pH when small amounts of strong acids or bases are added. Buffer solutions are used in biological systems to keep pH at a nearly constant value. The pH often plays an important role in a biological process and can affect internal and external environments of tissues and cells. Buffers are often required to maintain the correct pH for proteins and oligonucleotides, as many macromolecules require precise conditions to function properly.

In biological systems an ideal buffer has the following characteristics: a pKa value between 6.0 and 8.0, high water solubility, nontoxic, limited effect on biochemical reactions, very low absorbance between 240nm and 700nm, enzymatic and hydrolytic stability, minimal changes due to temperature and concentration, limited effects due to ionic or salt composition of the solution, and limited interaction with mineral cations. Alfa Aesar offers a complete line of biological buffers including powders and salts and also premixed buffer solutions.

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	43496	1,3-Bis[tris(hydroxymethyl)methylamino]propane, 98+%
	B22515	2,2-Bis(hydroxymethyl)-2,2',2''-nitrioltriethanol, 98%
	B24509	2-Amino-2-ethyl-1,3-propanediol, 97%
	J63144	2-Amino-2-methyl-1,3-propanediol, 99+%
	A11553	ACES, 99%
	J61761	ACES Buffer (0.5 M, pH 6.0)
	J60366	ACES Buffer (0.5 M, pH 6.5)
	J60755	ACES Buffer (0.5 M, pH 7.0)
	J61011	ACES Buffer (0.5 M, pH 7.5)
	J63876	Acetate Buffer (1 M, pH 3.0)
	J60340	Acetate Buffer (1 M, pH 3.5)
	J60104	Acetate Buffer (1 M, pH 4.0)
	J60964	Acetate Buffer (1 M, pH 5.0)
	J61033	Acetate Buffer (1 M, pH 5.5)



















	A15267	ADA, 98+%
	J60054	ADA Buffer (0.2 M, pH 6.0)
	J61259	ADA Buffer (0.2 M, pH 6.5)
	J61176	ADA Buffer (0.2 M, pH 7.0)
	J62424	ADA Buffer (0.2 M, pH 7.5)
	J62907	Alkaline Phosphatase Buffer-1 (5X)
	J63170	Alkaline Running Buffer
	J64180	Ammonium sulfate, 99+%, Molecular Biology Grade
	J63290	AMP, 0.2M buffer soln., pH 10.0
	J63988	AMP, 0.2M buffer soln., pH 9.5
	J60916	AMPD, 0.2M buffer soln., pH 8.5
	J61377	AMPD, 0.2M buffer soln., pH 8.9
	J61238	AMPSO, 0.2M buffer soln., pH 8.5
	J62328	AMPSO, 0.2M buffer soln., pH 9.0
	J63354	AMPSO, 0.2M buffer soln., pH 9.5
	J62378	AMPSO, 98+%
	J60749	Antibody & Antigen purification buffers
	J63014	Antibody purification on protein A column
	J60058	BES, 0.5M buffer soln., pH 6.0

	J60061	BES, 0.5M buffer soln., pH 7.0
	A16092	BES, 99%
	J61955	BES-buffered saline (2X)
	J63491	Bicarbonate, 1M buffer soln., pH 8.0
	J60092	Bicarbonate, 1M buffer soln., pH 8.5
	J60116	Bicarbonate, 1M buffer soln., pH 9.0
	J60494	BICINE, 0.5M buffer soln., pH 7.5
	J63924	BICINE, 0.5M buffer soln., pH 8.0
	J61632	BICINE, 0.5M buffer soln., pH 8.5
	J62838	BICINE, 0.5M buffer soln., pH 9.0
	A14957	BICINE, 99%
	J62686	BIS-TRIS, 0.2M buffer soln., pH 6.0
	J60127	BIS-TRIS, 0.2M buffer soln., pH 6.5
	J63346	BIS-TRIS, 0.2M buffer soln., pH 7.0
	J62209	BIS-TRIS, 0.2M buffer soln., pH 7.4
	J62354	BIS-TRIS propane, 0.2M buffer soln., pH 6.5
	J63555	BIS-TRIS propane, 0.2M buffer soln., pH 7.0

	J61292	BIS-TRIS propane, 0.2M buffer soln., pH 7.5
	J62831	BIS-TRIS propane, 0.2M buffer soln., pH 8.0
	J62012	BIS-TRIS propane, 0.2M buffer soln., pH 8.5
	J63943	BIS-TRIS propane, 0.2M buffer soln., pH 9.0
	J60803	Borate, 0.5M buffer soln., pH 8.5
	J62125	Borate, 0.5M buffer soln., pH 9.0
	J62154	Borate, 0.5M buffer soln., pH 9.5
	J60979	Borate-buffered saline (5X)
	A12075	Cacodylic acid, 98%
	J60569	CAPS, 0.5M buffer soln., pH 10.0
	J62446	CAPS, 0.5M buffer soln., pH 10.5
	J63138	CAPS, 0.5M buffer soln., pH 11.0
	J63749	CAPS, 0.5M buffer soln., pH 9.0
	J60776	CAPS, 0.5M buffer soln., pH 9.5
	A17037	CAPS, 99%
	J61126	CAPSO, 0.2M buffer soln., pH 9.0
	J63242	CAPSO, 0.2M buffer soln., pH 9.5
	B21305	CAPSO, 98%

 B25202 CAPSO sodium salt, 98%
 J64207 Carbonate, 0.1M buffer soln., pH 9.1
 J61229 Carbonate, 0.5M buffer soln., pH 10.0
 J63899 Carbonate, 0.5M buffer soln., pH 9.0
 J61064 Carbonate, 0.5M buffer soln., pH 9.4
 J63658 Carbonate, 0.5M buffer soln., pH 9.5
 J62610 Carbonate, 0.5M buffer soln., pH 9.6
 J61396 Carbonate-buffered saline (5X), pH 9.0
 J63928 Carbonate-buffered saline (5X), pH 9.5
 J60580 CHAPS lysis buffer
 J60812 CHAPS lysis buffer (2X)
 J63419 CHES, 0.5M buffer soln, pH 10.0
 J61492 CHES, 0.5M buffer soln, pH 8.5
 J63670 CHES, 0.5M buffer soln, pH 9.0
 J62333 CHES, 0.5M buffer soln, pH 9.5
 A18047 CHES, 99%
 J63008 Citrate, 0.5M buffer soln., pH 2.5
 J61391 Citrate, 0.5M buffer soln., pH 3.0

J61690	Citrate, 0.5M buffer soln., pH 3.5
J61249	Citrate, 0.5M buffer soln., pH 4.0
J60024	Citrate, 0.5M buffer soln., pH 4.5
J60125	Citrate, 0.5M buffer soln., pH 5.0
J60754	Citrate, 0.5M buffer soln., pH 5.5
J63950	Citrate, 0.5M buffer soln., pH 6.0
J63666	Citrate-buffered saline (20X)
J60132	Denaturing lysis buffer
J63402	E. coli lysis buffer
J62613	E. coli lysis buffer-II
J61558	Elution buffer, pH 8.0
J63115	Enzyme storage buffer in PBS and glycerol, autoclaved
J63264	Enzyme storage buffer in TBS and glycerol, autoclaved
J61538	EPPS, 0.2M buffer soln., pH 7.0

	J60511	EPPS, 0.2M buffer soln., pH 7.5
	J61296	EPPS, 0.2M buffer soln., pH 8.0
	J61476	EPPS, 0.2M buffer soln., pH 8.5
	J63878	Factor XA protease digestion buffer
	J60262	FSB buffer
	J61855	Glycine, 0.2M buffer soln., pH 2.5
	J62527	Glycine, 0.2M buffer soln., pH 3.0
	J60154	Glycine, 0.2M buffer soln., pH 3.5
	J60282	Glycylglycine, 0.2M buffer soln., pH 7.5
	J62920	Glycylglycine, 0.2M buffer soln., pH 8.0
	J60717	Glycylglycine, 0.2M buffer soln., pH 8.5
	A10523	Glycylglycine, 99%
	J62597	GTE buffer
	J60463	HEPES, 0.5M buffer soln., pH 6.5
	J60064	HEPES, 0.5M buffer soln., pH 7.0
	J61275	HEPES, 0.5M buffer soln., pH 7.5
	J61047	HEPES, 0.5M buffer soln., pH 7.6
	J63002	HEPES, 0.5M buffer soln., pH 8.0

	J63218	HEPES, 0.5M buffer soln., pH 8.5
	J63614	HEPES, 0.5M buffer soln., pH 9.0
	J61017	HEPES, 1.0M buffer soln., pH 6.5
	J62688	HEPES, 1.0M buffer soln., pH 7.0
	J60712	HEPES, 1.0M buffer soln., pH 7.5
	J63578	HEPES, 1.0M buffer soln., pH 8.0
	J61360	HEPES, 1.0M buffer soln., pH 8.5
	J60440	HEPES, 1.0M buffer soln., pH 9.0
	J16924	HEPES, 1M soln., pH 7.3, Molecular Biology Grade, Ultrapure, Thermo Scientific
	A14777	HEPES, 99%
	J16926	HEPES, 99+% (dry basis), Ultrapure, Thermo Scientific
	J61239	HEPES-buffered saline, pH 6.5 (5X)
	J62623	HEPES-buffered saline, pH 7.0 (2X for transfection)
	J60753	HEPES-buffered saline, pH 7.0 (5X)
	M10360	HEPES (Crystalline Free Acid), 99%
	J61830	HEPES hemisodium salt
	J62915	HEPES lysis buffer with NP-40
	J63867	HEPES lysis buffer with NP-40 (2X)

J63860	HEPES lysis buffer with Triton® X-100
J62809	HEPES lysis buffer with Triton® X-100 (2X)
J63297	HEPES protein extraction buffer (5X)
J16928	HEPES sodium salt, 98+% (dry basis), Ultrapure, Thermo Scientific
A16516	HEPES sodium salt, 99%
M10340	HEPES (Sodium Salt), 99%
J63877	HEPPSO, 0.2M buffer soln., pH 7.0
J62529	HEPPSO, 0.2M buffer soln., pH 8.0
J61956	Imidazole, 0.5M buffer soln., pH 6.0
J62207	Imidazole, 0.5M buffer soln., pH 6.5
J62593	Imidazole, 0.5M buffer soln., pH 7.0
J63496	Imidazole, 0.5M buffer soln., pH 7.5
J17525	Imidazole, 98.5+% (dry basis), Ultrapure, Thermo Scientific
J63887	Imidazole-buffered saline (5X)

J61967	Kinase buffer I (5X)
J60269	Kinase buffer II (5X)
J61792	Lysis buffer, 0.5% Tween 20, pH 8.0, for isolation of His-tag modified proteins
J63892	Lysis buffer, pH 8.0, for isolation of His-tag modified proteins
J60582	Maleate, 0.2M buffer soln., pH 5.0
J62049	Maleate, 0.2M buffer soln., pH 5.5
J61156	Maleate, 0.2M buffer soln., pH 6.5
J61297	Maleate, 0.2M buffer soln., pH 7.0
J63257	MES, 0.2M buffer soln., pH 5.5
J60930	MES, 0.2M buffer soln., pH 6.0
J62081	MES, 0.5M buffer soln., pH 5.0
J62534	MES, 0.5M buffer soln., pH 5.5
J62574	MES, 0.5M buffer soln., pH 6.0
J63778	MES, 0.5M buffer soln., pH 6.5
J63089	MES, 0.5M buffer soln., pH 7.0
J63706	MES, 0.5M buffer soln., pH 7.5
J61665	MES, 0.5M buffer soln., pH 8.0
J60031	MES, 0.5M buffer soln., pH 9.0

















	J61960	MES, 1.0M buffer soln., pH 5.0
	J63341	MES, 1.0M buffer soln., pH 5.5
	J60763	MES, 1.0M buffer soln., pH 6.0
	J61587	MES, 1.0M buffer soln., pH 6.5
	J62231	MES, 1.0M buffer soln., pH 7.0
	J62752	MES, 1.0M buffer soln., pH 7.5
	J61556	MES, 1.0M buffer soln., pH 8.0
	J62720	MES, 1.0M buffer soln., pH 8.5
	J61656	MES, 1.0M buffer soln., pH 9.0
	J61979	MES-buffered saline (5X), pH 6.5
	H56472	MES hydrate, 99+%
	J60244	MES lysis buffer with NP-40 (2X)
	J62693	MES lysis buffer with Triton® X-100
	A16104	MES monohydrate, 98%
	J18886	MES monohydrate, 98.5+% (dry basis), Ultrapure, Thermo Scientific
	J60690	MNE buffer, pH 6.5
	J61416	MOBS, 0.2M buffer soln., pH 7.0
	J63519	MOBS, 0.2M buffer soln., pH 7.5

J63594	MOBS, 0.2M buffer soln., pH 8.0
J62203	MOBS, 0.2M buffer soln., pH 8.5
J62477	MOPS, 0.5M buffer soln., pH 5.5
J62476	MOPS, 0.5M buffer soln., pH 6.0
J63369	MOPS, 0.5M buffer soln., pH 6.5
J60328	MOPS, 0.5M buffer soln., pH 7.0
J62839	MOPS, 0.5M buffer soln., pH 7.5
J61236	MOPS, 0.5M buffer soln., pH 8.0
J62368	MOPS, 0.5M buffer soln., pH 8.5
J60922	MOPS, 0.5M buffer soln., pH 9.0
J62261	MOPS, 1.0M buffer soln., pH 5.5
J62840	MOPS, 1.0M buffer soln., pH 6.0
J61797	MOPS, 1.0M buffer soln., pH 6.5
J61821	MOPS, 1.0M buffer soln., pH 7.0

	J61843	MOPS, 1.0M buffer soln., pH 7.5
	J61958	MOPS, 1.0M buffer soln., pH 8.0
	J60097	MOPS, 1.0M buffer soln., pH 9.0
	J19256	MOPS, 98.5+% (dry basis), Ultrapure, Thermo Scientific
	A12914	MOPS, 99%
	J61616	MOPS-buffered saline (5X), pH 7.5
	J60184	MOPS-EDTA-sodium acetate buffer (MESA)
	J61833	MOPSO, 0.2M buffer soln., pH 6.5
	J61469	MOPSO, 0.2M buffer soln., pH 7.0
	J62541	Nitrocellulose stripping buffer (10X)
	J60766	NP-40 lysis buffer
	J62805	NP-40 lysis buffer (2X)
	J61428	NP-40 lysis buffer, high salt
	J60902	NP-40 lysis buffer, low salt
	J60143	NP-40 lysis buffer with glycerol (2X)
	J60838	NP-40 permeating solution in PBS (10X)
	J62410	NP-40 permeating solution in TBS (10X)
	J75889	PBS, 10X Solution, pH 7.4, Molecular Biology Grade, Ultrapure, Thermo Scientific

J62267	Phosphatase buffer 1 (5X)
J60467	Phosphate, 0.2M buffer soln., pH 4.4
J60325	Phosphate, 0.2M buffer soln., pH 6.8
J60669	Phosphate, 0.2M buffer soln., pH 7.0
J62899	Phosphate, 0.2M buffer soln., pH 7.2
J60380	Phosphate, 0.2M buffer soln., pH 7.4
J61324	Phosphate, 0.2M buffer soln., pH 7.5
J61870	Phosphate, 0.2M buffer soln., pH 7.6
J60480	Phosphate, 0.2M buffer soln., pH 8.0
J61925	Phosphate, 0.2M buffer soln., pH 8.5
J60845	Phosphate, 0.5M buffer soln., pH 6.5
J62749	Phosphate, 0.5M buffer soln., pH 7.0
J63974	Phosphate, 0.5M buffer soln., pH 7.2
J60785	Phosphate, 0.5M buffer soln., pH 7.4
J63349	Phosphate, 0.5M buffer soln., pH 7.5
J61722	Phosphate, 0.5M buffer soln., pH 8.0
J61086	Phosphate, 0.5M buffer soln., pH 8.5
J62345	Phosphate, 0.5M buffer soln., pH 9.0

J62025	Phosphate, 0.5M buffer soln., pH 9.5
J62694	Phosphate buffered RIPA
J60780	Phosphate buffered RIPA (2X)
J67774	Phosphate buffered RIPA with 1% NP-40
J62939	Phosphate buffered RIPA with glycerol (2X)
J61917	Phosphate-buffered saline (DPBS, 10X), Dulbecco's formula
J60465	Phosphate-buffered saline (PBS, 10X), no potassium
J62036	Phosphate-buffered saline (PBS, 10X), pH 7.4
J60801	Phosphate-buffered saline (PBS, 10X), pH 7.4, for Western blot
J62692	Phosphate-buffered saline (PBS, 10X), pH 7.6
J63521	Phosphate-buffered saline (PBS, 10X), with Triton® X-100
J61196	Phosphate-buffered saline (PBS, 1X), sterile-filtered
J60893	Phosphate-buffered saline (PBS, 5X), with EDTA
J62982	Phosphate-Citrate Buffer (5X)

	J60891	PIPES, 0.5M buffer soln., pH 5.5
	J62224	PIPES, 0.5M buffer soln., pH 6.0
	J61224	PIPES, 0.5M buffer soln., pH 6.5
	J61786	PIPES, 0.5M buffer soln., pH 6.8
	J63234	PIPES, 0.5M buffer soln., pH 7.0
	J63617	PIPES, 0.5M buffer soln., pH 7.5
	J61406	PIPES, 0.5M buffer soln., pH 8.0
	J60611	PIPES, 1.0M buffer soln., pH 6.0
	J60659	PIPES, 1.0M buffer soln., pH 6.5
	J60300	PIPES, 1.0M buffer soln., pH 6.8
	J62195	PIPES, 1.0M buffer soln., pH 7.0
	J62494	PIPES, 1.0M buffer soln., pH 7.5
	J60618	PIPES, 1.0M buffer soln., pH 8.0
	A16090	PIPES, 98%
	J63152	PIPES-buffered saline (5X), pH 6.5
	J60568	PIPES lysis buffer with NP-40 (2X)
	J62360	PIPES lysis buffer with Triton® X-100
	B21835	PIPES monosodium salt hydrate, 99%

J62213	Polyethylene glycol-lithium acetate soln.
J60085	POPSO, 0.2M buffer soln., pH 8.0
J62817	Potassium acetate, 1M aq. soln., pH 7.5
J63372	Potassium acetate, 8M aq. soln.
J63739	Potassium chloride, 1M aq. soln.
J61261	Potassium phosphate, 0.2M buffer soln., pH 7.0
J60664	Potassium phosphate, 0.2M buffer soln., pH 7.2
J62397	Potassium phosphate, 0.2M buffer soln., pH 7.4
J62239	Potassium phosphate, 0.2M buffer soln., pH 7.5
J63128	Potassium phosphate, 0.2M buffer soln., pH 7.6
J60851	Potassium phosphate, 0.2M buffer soln., pH 8.0
J60584	Potassium phosphate, 0.5M buffer soln., pH 7.0
J60326	Potassium phosphate, 0.5M buffer soln., pH 7.2
J61413	Potassium phosphate, 0.5M buffer soln., pH 7.4
J61553	Potassium phosphate, 0.5M buffer soln., pH 7.5
J62990	RBC lysis buffer for human
J62150	RBC lysis buffer for mouse
J63306	RIPA buffer

J62189	RIPA buffer-2
J60629	RIPA buffer-2 (2X)
J63324	RIPA buffer (2X)
J62524	RIPA buffer (5X)
J61529	RIPA buffer with EDTA
J60645	RIPA buffer with EDTA + EGTA
J60423	RIPA buffer with Triton® X-100 + 10% glycerol (2X)
J62725	RIPA buffer with Triton® X-100 (1X)
J60488	RIPA buffer with Triton® X-100 (2X)
J62885	RIPA buffer with Triton® X-100 (5X)
J61367	SM buffer, pH 7.5
J61288	Sodium acetate, 3M aq. soln., pH 4.5, autoclaved
J63560	Sodium acetate, 3M aq. soln., pH 5.2, autoclaved
J60899	Sodium acetate, 3M aq. soln., pH 7.0, autoclaved

J66397	Sodium acetate, 99+%, anhydrous, Molecular Biology Reagent
J63025	Sodium bicarbonate, 1M buffer soln., pH 10.0
J62495	Sodium bicarbonate, 1M buffer soln., pH 8.0
J60408	Sodium bicarbonate, 1M buffer soln., pH 8.5
J60066	Sodium bicarbonate, 1M buffer soln., pH 9.0
J62808	Sodium bicarbonate, 1M buffer soln., pH 9.4
J60068	Sodium borate, 0.5M buffer soln., pH 8.0
J62902	Sodium borate, 0.5M buffer soln., pH 8.5
J63637	Sodium borate, 0.5M buffer soln., pH 9.0
J60367	Sodium cacodylate, 0.1M buffer soln., pH 6.5
J62202	Sodium cacodylate, 0.1M buffer soln., pH 6.8
J60344	Sodium cacodylate, 0.1M buffer soln., pH 7.0
J62918	Sodium citrate, 0.5M buffer soln., pH 5.0
J63199	Sodium citrate, 0.5M buffer soln., pH 5.5
J61815	Sodium citrate, 0.5M buffer soln., pH 6.0
J63888	Sodium citrate, 0.5M buffer soln., pH 6.5
J63482	Sodium phosphate, 0.2M buffer soln., pH 7.0
J63816	Sodium phosphate, 0.2M buffer soln., pH 7.2

J62152	Sodium phosphate, 0.2M buffer soln., pH 7.4
J62041	Sodium phosphate, 0.2M buffer soln., pH 7.5
J62733	Sodium phosphate, 0.2M buffer soln., pH 8.0
J61372	Sodium phosphate, 0.2M buffer soln., pH 8.5
J60565	Sodium phosphate, 0.2M buffer soln., pH 9.0
J63159	Sodium phosphate, 0.2M buffer soln., pH 9.5
J63791	Sodium phosphate, 0.5M buffer soln., pH 7.0
J61561	Sodium phosphate, 0.5M buffer soln., pH 7.5
J60158	Sodium phosphate, 0.5M buffer soln., pH 7.6
J60825	Sodium phosphate, 0.5M buffer soln., pH 8.0
J61151	Sodium phosphate, 0.5M buffer soln., pH 8.5
J60651	Sodium phosphate, 0.5M buffer soln., pH 9.0
J61456	Sodium phosphate, 0.5M buffer soln., pH 9.5
A15713	Sodium phosphate dodecahydrate, 97%
J62052	Sodium pyrophosphate, 200mM buffer soln.
J60839	SSC buffer (20X)
J61214	SSPE (20X)
J60265	STE buffer soln.

J60563	STET
J63619	Succinate, 0.2M buffer soln., pH 4.0
J63881	Succinate, 0.2M buffer soln., pH 4.5
J63863	Succinate, 0.2M buffer soln., pH 5.0
J61100	Succinate, 0.2M buffer soln., pH 5.5
J61853	Succinate, 0.2M buffer soln., pH 6.0
J62078	Succinate, 0.2M buffer soln., pH 6.5
J60720	Sucrose, 80%, in MNE buffer, MES + NaCl + EDTA
J63677	TAE (10X), TRIS + acetate + EDTA
J63931	TAE (50X), TRIS + acetate + EDTA
J60322	TAPS, 0.2M buffer soln., pH 8.0
J63268	TAPS, 0.2M buffer soln., pH 8.5
A17754	TAPS, 99%
J61189	TAPS sodium salt, 98%

J62449	TBE (10X), TRIS + borate + EDTA
J63487	TBE (5X), TRIS + borate + EDTA
J62788	TBE running buffer (10X)
J60357	TBE sample buffer (6X)
J60186	TBE urea sample buffer (2X)
J75892	TBS, 20X Solution, pH 7.4, Molecular Biology Grade, Ultrapure, Thermo Scientific
J60028	TB Solution-II
J77500	TBS with Tween® (TBST), 20X Solution, Molecular Biology Grade, Ultrapure, Thermo Scientific
J61546	TEA, 0.2M buffer soln., pH 7.0
J63793	TEA, 0.2M buffer soln., pH 8.0
J75893	TE Buffer, 1X Solution, Molecular Biology Grade, Ultrapure, Thermo Scientific
J75793	TE Buffer, 1X Solution pH 8.0, low EDTA, Molecular Biology Grade, Thermo Scientific
J60738	TE buffer, (20X), pH 7.4, autoclaved
J61110	TE buffer, (20X), pH 7.6, autoclaved
J62388	TE buffer, (20X), pH 8.0, autoclaved
J63379	TES, 0.2M buffer soln., pH 7.0
J61350	TES, 0.2M buffer soln., pH 7.5
J61889	TES, 0.2M buffer soln., pH 8.0

	B21819	TES, 99%
	J62706	TES sodium salt
	J63240	Thrombin buffer, pH 8.0
	J63985	TN buffer soln.
	J60622	TNT buffer soln.
	J60233	TPE (10X), TRIS + phosphate + EDTA
	J63037	Transfer or electro blotting buffer (10X), pH 8.5
	J63293	Transformation buffer-2, pH 7.5
	J60107	Tricine, 0.5M buffer soln., pH 6.5
	J62234	Tricine, 0.5M buffer soln., pH 7.0
	J62672	Tricine, 0.5M buffer soln., pH 7.5
	J62983	Tricine, 0.5M buffer soln., pH 8.0
	J63108	Tricine, 0.5M buffer soln., pH 8.5
	A14695	Tricine, 98+%
	J22561	Tricine, 98.5+% (dry basis), Ultrapure, Thermo Scientific
	J60811	Tricine-buffered saline (5X), pH 7.0
	J63294	Tricine-buffered saline (5X), pH 7.5
	J60745	Tricine-buffered saline (5X), pH 8.0

J61787	TRIS, 0.5M buffer soln., pH 6.5
J63735	TRIS, 0.5M buffer soln., pH 6.8
J61213	TRIS, 0.5M buffer soln., pH 7.0
J61009	TRIS, 0.5M buffer soln., pH 7.2
J62778	TRIS, 0.5M buffer soln., pH 7.4
J61141	TRIS, 0.5M buffer soln., pH 7.5
J62736	TRIS, 0.5M buffer soln., pH 7.6
J61944	TRIS, 0.5M buffer soln., pH 7.8
J62552	TRIS, 0.5M buffer soln., pH 8.0
J62944	TRIS, 0.5M buffer soln., pH 8.2
J61537	TRIS, 0.5M buffer soln., pH 8.4
J62131	TRIS, 0.5M buffer soln., pH 8.5
J62287	TRIS, 0.5M buffer soln., pH 8.6
J61144	TRIS, 0.5M buffer soln., pH 8.8

J62551	TRIS, 0.5M buffer soln., pH 9.0
J63134	TRIS, 0.5M buffer soln., pH 9.5
J60381	TRIS, 1.0M buffer soln., pH 6.5
J62264	TRIS, 1.0M buffer soln., pH 6.5, 0.2 micron filtered
J63831	TRIS, 1.0M buffer soln., pH 6.8
J62657	TRIS, 1.0M buffer soln., pH 7.0
J62186	TRIS, 1.0M buffer soln., pH 7.2
J60202	TRIS, 1.0M buffer soln., pH 7.4
J60636	TRIS, 1.0M buffer soln., pH 7.5
J62993	TRIS, 1.0M buffer soln., pH 7.5, 0.2 micron filtered
J61036	TRIS, 1.0M buffer soln., pH 7.6
J61579	TRIS, 1.0M buffer soln., pH 7.8
J62726	TRIS, 1.0M buffer soln., pH 8.0
J61429	TRIS, 1.0M buffer soln., pH 8.0, 0.2 micron filtered
J61798	TRIS, 1.0M buffer soln., pH 8.2
J62577	TRIS, 1.0M buffer soln., pH 8.4
J61038	TRIS, 1.0M buffer soln., pH 8.5, 0.2 micron filtered
J61066	TRIS, 1.0M buffer soln., pH 8.6

J60452	TRIS, 1.0M buffer soln., pH 8.8
J62085	TRIS, 1.0M buffer soln., pH 9.0
J60707	TRIS, 1.0M buffer soln., pH 9.0, 0.2 micron filtered
J62084	TRIS, 1.0M buffer soln., pH 9.5
J22675	Tris, 98+%, Thermo Scientific
J22674	Tris, 99.0-101.0% (dry basis), Thermo Scientific
J62560	TRIS-acetate-SDS running buffer (10X), pH 8.3
J62664	TRIS-buffered saline (TBS, 10X, high salt) pH 7.4
J60102	TRIS-buffered saline (TBS, 10X, low salt) pH 8.0
J60764	TRIS-buffered saline (TBS, 10X) pH 7.4
J62938	TRIS-buffered saline (TBS, 10X) pH 7.4, for Western blot
J62662	TRIS-buffered saline (TBS, 10X) pH 7.6
J62780	TRIS-buffered saline (TBS, 10X) pH 8.0
J60448	TRIS-buffered saline (TBS, 10X), with 0.5% Tween 20
J62533	TRIS-buffered saline (TBS, 10X), with 1% Triton® X-100
J62955	TRIS-buffered saline (TBS, 10X), with 1% Tween 20
J60877	TRIS-buffered saline (TBS, 20X) pH 7.4
J63682	TRIS-buffered saline (TBS, 20X), with 1% Tween 20

J60497	TRIS-buffered saline (TBS, 20X), with 2% Tween 20
J63692	TRIS-buffered saline (TBS, 5X), with EDTA
J61339	TRIS-CAPS buffer (10X)
J62914	TRIS-glycine-native running buffer (10X), pH 8.5
J61864	TRIS-glycine native sample buffer (4X), pH 8.6
J61006	TRIS-glycine-SDS running buffer (10X), pH 8.3
J22638	Tris-HCl, 1M soln., pH 8.0, Molecular Biology Grade, Ultrapure, Thermo Scientific
J62737	TRIS-HEPES-native running buffer (10X), pH 8.0
J61789	TRIS-HEPES-SDS running buffer (10X), pH 8.0
J22676	Tris hydrochloride, Molecular Biology Grade, Ultrapure, Thermo Scientific
J63636	Tris(hydroxymethyl)aminomethane hydrochloride, 1M stock soln, pH 8.0
J61062	Tris(hydroxymethyl)aminomethane, Molecular Biology Grade, 99.9%
J63948	TRIS-Tricine-SDS Kit (10X)
J63375	TRIS-Tricine-SDS running buffer (10X), anode buffer, pH 8.9

J60992	TRIS-Tricine-SDS running buffer (10X), cathode buffer, pH 8.3
J62526	Triton® X-100 lysis buffer-2, pH 8.0
J63653	Triton® X-100 lysis buffer (2X), pH 7.4
J62289	Triton® X-100 lysis buffer, pH 7.4
J63866	Triton® X-100 lysis buffer with glycerol (2X), pH 7.4
J61544	Tween 20 blocking buffer, 1% in PBS (10X)
J60165	Wash buffer, 0.5% Tween 20, pH 8.0
J60428	Wash buffer, 1.0% Triton® X-100, pH 8.0
J61918	Wash buffer, pH 8.0
J61375	Zymogram developing buffer (10X), pH 7.45
J63137	Zymogram renaturation buffer (10X)
J62774	Zymogram sample buffer, pH 6.6

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