

# Biochemical Reagents



Biochemical reagents refer to any chemical that is found in a biological system or that can be used for biological research. Biochemical reagents include molecules like amino acids, vitamins and nucleotides that are essential to life. Biochemical reagents also include organic and inorganic chemicals that have life science applications. These reagents can be salts, detergents and other small molecules that have biological effects or are required for biological assays. Alfa Aesar offers a wide range of high purity biochemical reagents for life science research.

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# ACS Grade Biochemical Reagents



ACS Reagents are high quality reagents for laboratory use. These reagents meet the specifications of the American Chemical Society Committee on Analytical Reagents. ACS specifications are listed in Reagent Chemicals: Specifications and Procedures. Alfa Aesar provides many ACS Reagents that have applications in life science research areas.

## Thermo Scientific Biochemicals



















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## Biochemical Reagents



















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	39121	1,2-Dichloroethane, ACS, 99+%
	43894	1-Methyl-2-pyrrolidinone, ACS grade, 99.0+%
	43144	5-Sulfosalicylic acid dihydrate, ACS, 99+%
	41272	8-Hydroxyquinoline, ACS
	36289	Acetic acid, glacial, ACS, 99.7+%
	30698	Acetone, ACS, 99.5+%
	36423	Acetonitrile, ACS, 99.5+%
	33233	Amidosulfonic acid, ACS, 99.3-100.3% (Assay dried basis)
	40193	Ammonium chloride, ACS, 99.5% min
	87777	Ammonium diamminetetra-thiocyanatochromate(III) monohydrate, ACS, 93.0% min
	11598	Ammonium dihydrogen phosphate, ACS, 98.0% min
	11597	Ammonium hydrogen phosphate, ACS, 98.0% min
	33285	Ammonium hydroxide, ACS, 28.0-30.0% NH <sub>3</sub>
	39391	Ammonium iron(III) sulfate dodecahydrate, ACS, 98.5-102.0%
	13448	Ammonium iron(II) sulfate hexahydrate, ACS, 98.5-101.5%
	11566	Ammonium sulfate, ACS, 99.0% min
	12310	Barium chloride dihydrate, ACS
	14499	Barium hydroxide octahydrate, ACS, 98+%

	12194	Barium nitrate, ACS, 99+%
	J65225	Bromocresol Green, ACS
	J64284	Bromocresol Green sodium salt, ACS
	32641	Bromophenol Blue, ACS
	33295	Calcium carbonate, ACS, 99.0% min
	89866	Calcium chloride, anhydrous, ACS, 96.0% min
	33296	Calcium chloride dihydrate, ACS, 99.0-105.0%
	14662	Calcium hydroxide, ACS, 95.0% min
	12364	Calcium nitrate tetrahydrate, ACS, 99.0-103.0%
	36700	Calcium sulfate dihydrate, ACS, 98.0-102.0%
	33254	Cerium(IV) ammonium nitrate, ACS, 98.5% min
	41724	Chloroacetic acid, ACS, 99%
	32614	Chloroform, ACS, 99.8+%
	36664	Citric acid, anhydrous, ACS, 99.5+%
	36665	Citric acid monohydrate, ACS, 99.0-102.0%
	36554	Cobalt(II) chloride hexahydrate, ACS, 98.0-102.0%
	14178	Copper(II) sulfate pentahydrate, ACS, 98.0-102.0%
	22866	Crystal Violet, ACS, 90+%

	36480	Dimethyl sulfoxide, ACS, 99.9% min
	11931	Ethylenediaminetetraacetic acid, ACS, 99.4+%
	33312	Ethylenediaminetetraacetic acid disodium salt dihydrate, ACS, 99.0-101.0%
	33314	Formaldehyde, 37% in aq. soln., ACS, 36.5-38.0%, stab. with 10-15% methanol
	36617	Formic acid, ACS, 96+%
	36462	Hexamethylenetetramine, ACS, 99+%
	40120	Hydrazine sulfate, ACS, 99.0% min
	33257	Hydrochloric acid, ACS, HCl 36.5-38.0%
	12497	Iron(III) chloride hexahydrate, ACS, 97.0-102.0%
	33315	Iron(III) nitrate nonahydrate, ACS, 98.0-101.0%
	14243	Lead(II) nitrate, ACS, 99.0% min
	36225	Lithium carbonate, ACS, 99.0% min
	36217	Lithium chloride, ACS, 99% min
	36216	Lithium sulfate monohydrate, ACS, 99.0% min

	11596	Magnesium sulfate heptahydrate, ACS, 98.0-102.0%
	36526	Manganese(II) chloride tetrahydrate, ACS, 98.0-101.0%
	J63214	N-(1-Naphthyl)ethylenediamine dihydrochloride, ACS
	J62643	Neutral Red, ACS
	36336	Nickel(II) sulfate hexahydrate, ACS, 98.0% min
	33262	Oxalic acid dihydrate, ACS, 99.5-102.5%
	33213	Phenol, ACS, 99+%, stab.
	33266	Phosphoric acid, 85% w/w aq. soln., ACS
	11595	Potassium chloride, ACS, 99.0-100.5%
	11594	Potassium dihydrogen phosphate, ACS, 99.0% min
	11593	Potassium hydrogen phosphate, ACS, 98.0% min
	13451	Potassium hydroxide, ACS, 85% min, $K_2CO_3$ 2.0% max
	14311	Potassium sulfate, ACS, 99.0% min
	14318	Potassium thiocyanate, ACS, 98.5% min
	11554	Sodium acetate, anhydrous, ACS, 99.0% min
	11553	Sodium acetate trihydrate, ACS, 99.0%-101%
	33377	Sodium carbonate, ACS primary standard, 99.95-100.05% (dried basis)
	11552	Sodium carbonate, anhydrous, ACS, 99.5% min

	12314	Sodium chloride, ACS, 99.0% min
	11591	Sodium dihydrogen phosphate monohydrate, ACS, 98.0-102.0%
	14707	Sodium hydrogen carbonate, ACS, 99.7-100.3%
	13437	Sodium hydrogen phosphate, anhydrous, ACS, 99.0% min
	11592	Sodium hydrogen phosphate heptahydrate, ACS, 98.0-102.0%
	13455	Sodium hydroxide (low chloride), ACS, 97.0% min
	87683	Sodium pentacyanonitrosylferrate(III) dihydrate, ACS, 99.0-102.0%
	11560	Sodium sulfate, ACS, 99.0% min
	36489	Sodium tungsten oxide dihydrate, ACS, 99.0-101.0%
	36703	Starch, soluble, ACS (for iodometry)
	42785	Thymol Blue sodium salt, ACS
	31801	Tris(hydroxymethyl)aminomethane, ACS, 99.8-100.1% (Assay, dried basis)
	36439	Trisodium citrate dihydrate, ACS, 99.0% min
	12307	Zinc chloride, ACS, 97% min
	33399	Zinc sulfate heptahydrate, ACS, 99.0-103.0%

# Natural Products



Natural products are molecules that living organisms produce or synthesize. These compounds are generally of interest because of their unique biological activity or physiological properties. They typically have complex structures with one or more stereochemical elements, varied functional groups and relatively large molecular weights. Natural products are often divided into two major classes, primary and secondary metabolites. Primary metabolites have an intrinsic function that is essential to the survival of the organism that produces them. In contrast secondary metabolites have an extrinsic function that mainly affects other organisms. Secondary metabolites are not essential to survival but do increase the competitiveness of the organism within its environment. Natural products can be isolated from natural sources, synthesized in a laboratory, or partially synthesized from a biological precursor. Alfa Aesar natural products include compounds such as alkaloids, steroids, and terpenes that are found in a variety of biological systems.

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	A12269	1,8-Cineole, 99%
	B23469	(1S)-(-)-Camphor, 97%
	B20528	3',5,7-Trihydroxy-4'-methoxyflavanone, 97%
	L14178	5,7-Dihydroxyflavone, 98%
	36499	Acacia, Total ash <4%
	A10752	Agar powder
	J64101	Albumin, Bovine, Fraction V, 35% soln., Cell Culture Grade, with azide as preservative
	J64100	Albumin, Bovine, Fraction V, 98%, Reagent Grade, pH 7.0
	A17582	Alginic acid
	J61887	Alginic acid sodium salt, high viscosity
	B25266	Alginic acid sodium salt, low viscosity
	A18565	Alginic acid sodium salt, very low viscosity
	A15571	Allantoin, 98%
	J62153	Aloin

	J65125	alpha-Asarone
	J62871	alpha-Terpinene, 90+%
	16285	alpha-Terpineol, 96%
	17658	Ammonium L-(+)-tartrate, 98%
	30739	Anthrone, ACS
	J64972	Avidin, from egg
	L03807	Berberine chloride hydrate, 96%, water <17%
	A17522	Bilirubin 97%
	A18724	Bisabolene, mixture of isomers
	J62631	Bovine Gamma Globulin, 1mg/ml
	J60205	Bovine Serum Albumin, 1mg/ml
	J61178	Brucine
	A16289	Canada balsam, natural filtered
	J60603	Carrageenan, iota type
	J64214	Casein, Hammarsten Grade
	J64482	Casein, high nitrogen, 95%
	H26557	Casein Peptone
	J65590	Casein sodium salt
	A13707	Casein, tech.

	A10164	Catechol, 99%
	J64143	Chitosan, 85% deacetylated
	A16155	Chlorophyllin, coppered trisodium salt
	A11470	Cholesterol, 95%
	J62050	Cholic acid sodium salt
	J13630	Cholic acid sodium salt, 97+% (dry basis), Ultrapure, Thermo Scientific
	A18796	(-)-Cinchonidine, 99% (total base), may cont. up to 5% quinine
	A17523	(+)-Cinchonine, 98+%, cont. up to 3% quinidine/dihydroquinidine and 3% quinine/dihydroquinine
	J65434	Coenzyme A trilithium salt, 95%
	J60218	Collagen, bovine achilles tendon
	J64182	Cortisone
	J62367	Croton oil
	B21573	Curcumin, 95% (total curcuminoid content), from Turmeric rhizome
	J62122	Cytochrome C, equine heart, 90+%
	A19666	Dehydrocholic acid, 99%
	J61458	Denatured salmon testes DNA, phenol extracted
	B20061	Deoxycholic acid, 99%

	J60840	Deoxyribonucleic acid, salmon testes
	J63691	Dexamethasone acetate
	H56648	D-Pinitol, 95%
	A14832	Elaidic acid, 98%
	A19778	Farnesyl acetate, mixture of isomers, 96%
	J63276	Fibrinogen, bovine
	B21983	Filter aid, Celite Standard Super-cel
	J61548	Gelatin, type A, 175 Bloom
	J63423	Gellan Gum
	A19864	Geranyl acetate, 98%
	A11830	Glycerol tributyrate, 97%
	A18579	Hematoporphyrin dihydrochloride
	A11165	Hemin (porcine), 97+%
	J63838	Hemoglobin, bovine
	A16198	Heparin sodium salt, from porcine intestinal mucosa, IU>=100/mg
	J62126	Hesperidin, 95%
	J60566	Hyaluronic acid, bovine vitreous humor
	A16292	Hydrocortisone, 98%

	A11411	Hydroquinone, 99%
	J61321	Insulin, from porcine pancreas, 97%
	J61844	Karaya Gum
	A10760	Kojic acid, 99%
	J63215	Lactalbumin hydrolysate
	J60576	Lecithin, 60%, egg
	J61675	Lecithin, 90%, soybean
	40318	Magnesium silicate monohydrate (Talc)
	H26694	Meat Peptone
	31911	Mineral oil
	J62592	Mineral oil, high purity
	J71600	Mineral oil, light, Molecular Biology Grade, Thermo Scientific
	J63859	Mucin, bovine submaxillary gland
	J60450	Myricetin, 98%
	L10163	Naringin hydrate, 98%
	A19166	(+)-Nootkatone, crystalline, 98+%
	J63404	Protein A, Staph. aureus
	J63982	Safflower oil, Carthamus tinctorius

	A17074	Sodium cholate hydrate, 99%
	J62288	Sodium deoxycholate monohydrate, 97%
	41529	Sodium DL-lactate, 60% w/w aq. soln.
	A18346	Sodium taurocholate hydrate, 96%
	J61399	Soybean oil
	J62428	Streptavidin, Streptomyces avidinii
	J63668	Thaumatococcus daniellii
	J63383	Thrombin, bovine plasma
	J22292	Thrombin, human, Thermo Scientific
	A18502	Tragacanth powder
	J61626	Transferrin (Apo), bovine plasma, 98+%
	J61046	Transferrin (Holo), bovine plasma, 98+%
	B20490	Ursodeoxycholic acid, 99%
	J60287	Yeast Extract

## Amino Acids and Derivatives



Amino acids are the building blocks of peptides and proteins. All amino acids contain an amine group, a carboxylic acid group, and a side-chain that varies for each amino acid. The side chains differ in polarity and pKa and are important to both protein structure and function. Amino acids can be classified into groups based on the chemical properties of their side chains: aliphatic, aromatic, basic, and acidic, and neutral. L-stereochemistry overwhelmingly predominates amino acids found in nature. Twenty amino acids are directly encoded by the genetic code of eukaryotes. Alfa Aesar offers a full line of amino acids in different grades and purities. We also offer a large range of amino acid derivatives to aid in the study of how amino acid modifications affect protein activity, structure and function.

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Amino Acids















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# Biochemical Reagents



























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	H52177	2-Allyl-N-Fmoc-L-glycine, 95%
	J64244	2-Amino-3-methoxybenzoic acid
	L08256	2-Amino-5-hydroxybenzoic acid, 98%
	A13021	2-Aminoisobutyric acid, 99%
	L09424	(±)-2-Pyrrolidinone-5-carboxylic acid, 99%
	41535	3,4-Dihydroxy-DL-phenylalanine, 98%
	J65145	4-Amino-3-hydroxybutyric acid
	A12673	4-Aminobenzoic acid, 99%
	J63428	4-Aminobenzoic acid sodium salt, 98%
	J61307	4-Aminobutyric acid, 99+%
	J65331	4-Amino-DL-phenylalanine
	H51980	4-Amino-N-Boc-L-phenylalanine, 95%
	H51978	4-Bromo-N-Fmoc-L-phenylalanine, 95%
	H51982	4-Chloro-D-phenylalanine, 95%


























	H51972	4-Fluoro-N-Fmoc-L-phenylalanine, 95%
	H52828	4-(Fmoc-amino)benzoic acid, 97%
	L07190	(-)-4-Hydroxy-D-phenylglycine, 98+%
	A16942	5-Aminolevulinic acid hydrochloride, 99%
	A14719	6-Aminohexanoic acid, 99%
	L19398	alpha,alpha-Diphenyl-N-methyl-D-prolinol, 97%, ee 99+%
	L19399	alpha,alpha-Diphenyl-N-methyl-L-prolinol, 97%, ee 99+%
	A16665	beta-Alanine, 98%
	B25009	Creatine monohydrate, 99%
	B22873	Cystamine dihydrochloride, 97+%
	A15669	D-(-)-2-Phenylglycine, 99%
	A10231	D-Alanine, 99%
	A16137	D-Arginine, 98%
	A16222	D-Arginine monohydrochloride, 98%
	B24556	D-(-)-Asparagine monohydrate, 99%
	B21184	D-Aspartic acid, 99%
	A18000	D-Cycloserine, 98+%
	H27107	D-Cysteine hydrochloride monohydrate, 99%
	L13772	D-Cystine, 98%



















	A14191	D-Glutamic acid, 99+%
	J60784	D-Glutamine, 99+%
	B21027	D-Histidine, 99%
	H27488	D-Isoleucine, 98%
	A12237	DL-5-Hydroxytryptophan, 99%
	A12230	DL-Alanine, 99%
	A17520	DL-Arginine, 98%
	J61420	DL-Arginine hydrochloride
	B20273	DL-Asparagine monohydrate, 98%
	A13646	DL-Aspartic acid, 98+%
	H31749	DL-beta-Homoproline hydrochloride, 97%
	H56126	DL-Cysteine, 96%
	J63564	DL-Cystine
	A14842	D-Leucine, 99%
	L13243	D-Leucinol, 97%
	A17719	DL-Glutamic acid monohydrate, 98+%
	A16165	DL-Histidine monohydrochloride monohydrate, 99%















	A17521	DL-Isoleucine, 99%
	A10590	DL-Leucine, 99%
	A11066	DL-Lysine monohydrochloride, 99%
	A11457	DL-Methionine, 99%
	B25094	DL-Methionine sulfone, 98%
	A18081	DL-Methionine sulfoxide, 98+%
	B22741	DL-N-Acetylhomocysteine thiolactone, 99%
	A15900	DL-Norvaline, 98%
	A18173	DL-Ornithine monohydrochloride, 99%
	A10132	DL-Phenylalanine, 99%
	H63562	DL-Phenylalaninol, 95%
	H63932	DL-Phenylglycinol, 95%
	A15184	DL-Serine, 99%
	A10606	DL-Threonine, 99%
	L05936	DL-Tryptophan, 99%
	A13740	DL-Tyrosine, 98%
	A16756	DL-Valine, 99%
	L07710	D-Lysine monohydrochloride, 98%

	B21213	D-Methionine, 99%
	L08257	D-(-)-Norleucine, 99%
	B23444	D-Norvaline, 99%
	L00793	D-Ornithine hydrochloride, 98+%
	A10572	D-Phenylalanine, 99%
	L09697	D-Phenylalaninol, 98%
	A11353	D-Serine, 99%
	B21177	D-Threonine, 99%
	A18426	D-Tryptophan, 99%
	A18894	D-Valine, 98+%
	L14166	D-(-)-Valinol, 98%
	A14442	gamma-L-Glutamyl-4-nitroanilide, 98+%
	J67675	gamma-L-Glutamyl hydrazide
	36435	Glycine, 99+%
	43497	Glycine, ACS, 98.5+%
	A18822	Glycine anhydride, 98%
	J61727	Histamine
	L09198	Histamine dihydrochloride, 98+%



















	J61088	Histamine diphosphate, 98%
	A19360	L-(+)-2-Phenylglycine, 98+%
	H52195	L-3-(Fmoc-amino)-N-trityladipic acid 6-amide, 95%
	A13954	L-5-Hydroxytryptophan hydrate, 98%
	A15804	L-Alanine, 99%
	A15738	L-Arginine, 98+%
	A14730	L-Arginine monohydrochloride, 98+%
	B21473	L-(+)-Asparagine, 99%
	A15012	L-(+)-Asparagine monohydrate, 98+%
	L08956	L-Aspartic acid 4-benzyl ester, 98%
	A13520	L-Aspartic acid, 98+%
	J65983	L-Aspartic acid dimethyl ester hydrochloride, 98%
	B22321	L-Aspartic acid monosodium salt monohydrate, 99%
	A17618	L-Carnitine, 98+%



















	A13316	L-Citrulline, 98%
	A10435	L-Cysteine, 98+%
	L06328	L-Cysteine hydrochloride, anhydrous, 97%
	A10389	L-Cysteine hydrochloride monohydrate, 99%
	J64436	L-Cysteine methyl ester hydrochloride
	A13762	L-Cystine, 99%
	M10350	L-Cystine, 99%
	J62292	L-Cystine dihydrochloride, 99%
	J62310	L-Cystine disodium salt, 98+%
	J63071	L-Cystine disodium salt monohydrate, 98+%
	J67861	L-(+)-Ergothioneine, 98+%
	B24859	L-Glutamic acid 5-methyl ester, 99%
	A15031	L-Glutamic acid, 99%
	A12505	L-Glutamic acid hydrochloride, 99%
	J63424	L-Glutamic acid monosodium salt
	A10413	L-Histidine, 98+%
	M10370	L-HISTIDINE, 99%
	A17627	L-Histidine monohydrochloride monohydrate, 99%















	A13699	L-Isoleucine, 99%
	H60556	L-Isoleucinol, 97%
	A12311	L-Leucine, 99%
	B23745	L-Leucinol, 97%
	J62225	L-Lysine, 98%
	A18157	L-Lysine methyl ester dihydrochloride, 99%
	A16249	L-Lysine monohydrochloride, 99+%
	J62099	L-Lysine monohydrochloride, Cell Culture Reagent
	A10318	L-Methionine, 98+%
	J61904	L-Methionine, Cell Culture Reagent
	A17027	L-Methionine sulfone, 98+%
	J62873	L-Methionine sulfoxide
	B24211	L-(-)-Methioninol, 97%
	L03913	L-(+)-Norleucine, 99%
	L08658	L-Norvaline, 99%
	A12111	L-Ornithine hydrochloride, 99%
	A13238	L-Phenylalanine, 99%
	A11586	L-Phenylalaninol, 98%



















	A11179	L-Serine, 99%
	J62187	L-Serine, Cell Culture Reagent
	A16851	L-Threonine, 98+%
	A10230	L-Tryptophan, 99%
	H62506	L-Tryptophanol, 97%
	A11141	L-Tyrosine, 99%
	J61770	L-Tyrosine disodium salt dihydrate
	A12720	L-Valine, 99%
	L11300	L-(+)-Valinol, 97%
	L10329	N-Acetyl-DL-alanine, 97+%
	B21866	N-Acetyl-DL-methionine, 99%
	B21887	N-Acetylglycine, 99%
	L11811	N-Acetyl-L-alanine, 96%
	A15409	N-Acetyl-L-cysteine, 98+%
































	B23621	N-Acetyl-L-glutamic acid, 99%
	J65657	N-Acetyl-L-histidine monohydrate
	L13926	N-Acetyl-L-leucine, 98%
	B23812	N-Acetyl-L-phenylalanine, 99%
	L14300	N-Acetyl-L-proline, 99%
	J64096	N-Acetyl-L-tryptophan, 99%
	A17307	N-Acetyl-L-tyrosine, 99%
	L06780	N-alpha-Acetyl-L-glutamine, 99%
	J65083	N(alpha)-Acetyl-L-lysine, 99%
	J64915	N-alpha-Benzoyl-L-arginine p-nitroanilide hydrochloride
	L08536	N(alpha)-Boc-D-glutamine, 98+%
	L08810	N(alpha)-Boc-D-histidine, 98+%
	L09214	N(alpha)-Boc-D-tryptophan, 97%
	H27763	N(alpha)-Boc-D-tryptophanol, 98%
	A16019	N(alpha)-Boc-L-asparagine, 98+%
	L08604	N(alpha)-Boc-L-glutamine, 98+%
	B22042	N(alpha)-Boc-L-histidine, 98+%
	A16023	N(alpha)-Boc-L-tryptophan, 98+%


















	H52437	N(alpha)-Boc-N(epsilon),N(epsilon)-dimethyl-L-lysine, 97%
	L09327	N(alpha)-Ethoxycarbonyl-L-asparagine, 97%
	B22022	N(alpha)-Fmoc-D-tryptophan, 98%
	B21008	N(alpha)-Fmoc-L-asparagine, 98%
	B21130	N(alpha)-Fmoc-L-tryptophan, 98%
	B22372	N-Benzyloxycarbonyl-D-alaninol, 98%
	H27819	N-Benzyloxycarbonyl-D-phenylalaninol, 98%
	H27066	N-Benzyloxycarbonyl-L-alaninol
	H52787	N-Boc-2-methyl-D-serine, 97%
	H52570	N-Boc-2-methyl-L-serine, 97%
	H52128	N-Boc-2-propargyl-L-glycine, 95%
	H52015	N-Boc-3-chloro-L-phenylalanine, 95%
	H51963	N-Boc-3-fluoro-D-phenylalanine, 98%
	H51988	N-Boc-3-fluoro-L-phenylalanine, 95%
	H52058	N-Boc-3-nitro-L-phenylalanine, 95%
	H51969	N-Boc-4-bromo-L-phenylalanine, 98%
	H52181	N-Boc-4-chloro-D-phenylalanine, 95%
	H51960	N-Boc-4-iodo-L-phenylalanine, 98%



















	H52082	N-Boc-4-methoxy-D-phenylalanine, 95%
	H51983	N-Boc-4-methyl-L-phenylalanine, 95%
	H51986	N-Boc-4-nitro-L-phenylalanine, 95%
	B22522	N-Boc-beta-alanine, 99%
	B22706	N-Boc-D-alanine, 98+%
	H27887	N-Boc-D-alaninol, 98%, ee 98%
	H27163	N-Boc-D-alpha-phenylglycinol, 99%
	H27415	N-Boc-D-cyclohexylglycinol, 98%
	B21944	N-Boc-D-glutamic acid 1-benzyl ester, 99%
	L09124	N-Boc-D-leucine hydrate, 98+%
	H62498	N-Boc-D-leucinol, 98%
	L09207	N-Boc-D-methionine, 98+%
	L08722	N-Boc-D-phenylalanine, 98%
	H27713	N-Boc-D-phenylalaninol, 98%

	L18540	N-Boc-D-phenylglycine, 99%
	H26294	N-Boc-D-prolinal, 97%
	L08826	N-Boc-D-proline, 98+%
	L08904	N-Boc-D-serine, 98+%
	L09193	N-Boc-D-valine, 98+%
	H61149	N-Boc-D-valinol, 95%
	B22407	N-Boc-gamma-aminobutyric acid, 98+%
	A11579	N-Boc-glycine, 98+%
	A16018	N-Boc-L-alanine, 98+%
	B22399	N-Boc-L-alaninol, 99%
	L19353	N-Boc-L-alpha-phenylglycinol, 98%
	B22314	N-Boc-L-aspartic acid 1-benzyl ester, 98%
	B21758	N-Boc-L-aspartic acid 4-benzyl ester, 98%
	L08498	N-Boc-L-aspartic acid, 98%
	H52191	N-Boc-L-beta-glutamic acid 5-benzyl ester, 95%
	B22322	N-Boc-L-glutamic acid 5-tert-butyl ester, 99%
	L19351	N-Boc-L-isoleucinol, 95%
	L19352	N-Boc-L-leucinol, 97%













	L08366	N-Boc-L-methionine, 98+%
	L08615	N-Boc-L-norvaline, 98+%
	H66530	N-Boc-L-phenylalaninal, 97%
	A16017	N-Boc-L-phenylalanine, 99%
	B25019	N-Boc-L-phenylalaninol, 99%
	L18541	N-Boc-L-phenylglycine, 99%
	H26495	N-Boc-L-prolinal, 96%
	A13744	N-Boc-L-proline, 99%
	L09885	N-Boc-L-prolinol, 98+%
	A16224	N-Boc-L-serine, 98% (dry wt.), may cont. up to 10% water
	H51136	N-Boc-L-tert-leucine, 98%
	H66571	N-Boc-L-tryptophanol, 95%
	A10810	N-Boc-L-tyrosine, 98+%
	B22164	N-Boc-L-tyrosine methyl ester, 99%
	A16007	N-Boc-L-valine, 98+%
	L10236	N-Boc-L-valinol, 97%
	H31317	N-Boc-N-methyl-L-alanine, 98%
	B22666	N-Boc-O-benzyl-D-serine, 99%

	B21677	N-Boc-O-benzyl-L-threonine, 99%
	B23455	N-Boc-O-benzyl-L-tyrosine, 98%
	H52781	N-Boc-O-ethyl-L-serine, 97%
	H27110	N-Boc-trans-4-hydroxy-L-proline, 97%
	J64139	N(epsilon)-Acetyl-L-lysine, 99%
	B21738	N(epsilon)-Boc-L-lysine, 97%
	H28301	N(epsilon)-Boc-N(alpha)-Fmoc-D-lysine, 98%
	H52193	N-Fmoc-3-(4-pyridyl)-D-alanine, 95%
	H52172	N-Fmoc-3-(4-pyridyl)-L-alanine, 95%
	H52117	N-Fmoc-4-methoxy-L-phenylalanine, 95%
	H51962	N-Fmoc-4-nitro-L-phenylalanine, 98%
	H29041	N-Fmoc-D-leucine, 98%
	B21689	N-Fmoc-D-phenylalanine, 98%
	H28500	N-Fmoc-D-proline, 98+%, may cont. up to ca 5% water

	H66956	N-Fmoc-D-threoninol, 98%
	B21050	N-Fmoc-glycine, 98%
	B21107	N-Fmoc-L-alanine monohydrate, 98%
	H66433	N-Fmoc-L-alaninol, 95%
	H52190	N-Fmoc-L-beta-glutamic acid 5-tert-butyl ester, 95%
	H52178	N-Fmoc-L-beta-homoalanine, 95%
	H52188	N-Fmoc-L-beta-homoglutamic acid 6-tert-butyl ester, 95%
	H51976	N-Fmoc-L-beta-homoleucine, 95%
	H52060	N-Fmoc-L-beta-homoproline, 95%
	H52182	N-Fmoc-L-beta-homovaline, 95%
	B21154	N-Fmoc-L-isoleucine, 98%
	B21040	N-Fmoc-L-leucine, 98%
	B21220	N-Fmoc-L-methionine, 98+%
	B22475	N-Fmoc-L-norleucine, 98%
	B21210	N-Fmoc-L-phenylalanine, 98+%
	H66381	N-Fmoc-L-phenylalaninol, 95%
	B21081	N-Fmoc-L-proline, 98%
	H52171	N-Fmoc-L-propargylglycine, 95%

	B21079	N-Fmoc-L-serine, 97+%
	H66211	N-Fmoc-L-threoninol, 98%
	B21030	N-Fmoc-L-valine, 98%
	H66323	N-Fmoc-L-valinol, 98%
	H27363	N-Fmoc-S-trityl-L-cysteine, 95%
	J61361	N-Methyl-D-aspartic acid, 98+%
	J62431	N-Methyl-L-arginine
	H52189	N(omega)-Boc-N(beta)-Fmoc-L-beta-homolysine, 95%
	A14182	N-Phenylglycine, 97%
	L09095	N-Tritylglycine, 97%
	J64933	O-Acetyl-L-serine hydrochloride
	H52065	O-tert-Butyl-N-Fmoc-L-beta-homoserine, 95%
	H52192	O-tert-Butyl-N-Fmoc-L-beta-homotyrosine, 95%
	A19030	(R)-(-)-2-Phenylglycinol, 98%
	J61636	(R)-(-)-alpha-Methylhistamine dihydrochloride
	L11109	(R)-(-)-Prolinol, 98+%
	L13265	(S)-(+)-2-Phenylglycinol, 98+%
	H52174	(S)-3-(Boc-amino)-4-phenylbutyric acid, 95%



	H52173	(S)-3-(Boc-amino)-5-methylhexanoic acid, 95%
	H51990	(S)-4-(Boc-amino)-2-(Fmoc-amino)butyric acid, 96%
	A14594	Sarcosine, 98%
	B25536	Sarcosine hydrochloride, 99%
	J66902	Seleno-L-methionine
		A naturally occurring amino acid containing selenium. Selenomethionine is an antioxidant and has been shown to increase glutathione peroxidase activity in endothelial cells. /n
	B21263	Serotonin hydrochloride, 98%
	H51975	(S)-N-Fmoc-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid, 95%
	L09779	(S)-(+)-Prolinol, 98%
	A12403	Taurine, 99%
	H52740	trans-N-Fmoc-4-hydroxy-L-proline, 97%
	L02555	Tryptophol, 97%
	A12220	Tyramine hydrochloride, 98%

## Peptides and proteins



Peptides are chains of two and up to 100 amino acids bonded by amide bonds between the carboxyl and amino groups of adjacent side chains. Peptides are key regulators of many biological functions including hormone release and many neurological processes.

Proteins are comprised of one or more peptide chains, typically folded into a globular or fibrous form in a biologically functional way. A protein's function is determined by its amino acid composition and also by its structure. Proteins have many different functions in biology including molecular transport, catalysis, and cellular signaling. Proteins can also have structural functions in cells. These structural proteins are frequently found in connective tissues such as cartilage, and also in hair, nails and animal shells.

Alfa Aesar offers an extensive range of peptides. Many are useful for the study of neuroscience, signal transduction and metabolism. We also offer a number of protein reagents for life science research.

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	J66228	10-Deacetylbaccatin III, 95%
	J66960	17-(Allylamino)-17-demethoxygeldanamycin, 99%
	J66524	2F5 epitope A highly conserved segment of gp41 that has been identified as the epitope of the HIV-1 neutralizing human monoclonal antibody 2F5 (MAb 2F5).
	J66946	Acetyl-Myelin Basic Protein (4-14) Peptide
	J66967	Acetyl-Neurotensin (8-13)
	J66486	Achatin-1
	J66224	Adipokinetic Hormone II, <i>Locusta migratoria</i>
	J66743	Adipokinetic Hormone II, <i>Schistocera gregaria</i>
	J66880	Adipokinetic Hormone, locust
	J66957	Adipokinetic Hormone, <i>Tabanus atratus</i>
	J66844	Adrenocorticotrophic Hormone (11-24)
	J61247	Adrenocorticotrophic Hormone (1-13)
	J66066	Adrenocorticotrophic Hormone (1-16), human

J66931	Adrenocorticotropic Hormone (1-17), human
J66365	Adrenocorticotropic Hormone (1-24), human
J65775	Adrenocorticotropic Hormone (1-39), guinea pig
J66508	Adrenocorticotropic Hormone (1-39), human
J66519	Adrenocorticotropic Hormone (1-39), rat
J66596	Adrenocorticotropic Hormone (18-39), human
J66719	Adrenocorticotropic Hormone (4-10), human
J66357	Adrenocorticotropic Hormone (4-11), human
J66352	Adrenocorticotropic Hormone (6-24), human
J66765	Adrenocorticotropic Hormone (7-38), human
J66833	Adrenomedullin (1-12), human
J66393	Adrenomedullin (11-50), rat
J66619	Adrenomedullin (13-52), human
J66493	Adrenomedullin (1-50), rat
J66379	Adrenomedullin (1-52), human
J66356	Adrenomedullin (1-52), porcine
J66935	Adrenomedullin (16-31), human, pig
J66878	Adrenomedullin (22-52), human
J66403	Adrenorphin

J66389	Adrenorphin, free acid
J66149	Ala-Ala-Pro-Val chloromethyl ketone, 95%
J66964	Ala-Gly-Asp-Val
J66857	Ala-Leu-Ala-Leu
J66511	[Ala <sup>1</sup> , <sup>3</sup> , <sup>1</sup> <sup>1</sup> , <sup>1</sup> , <sup>5</sup> ] Endothelin-1, human
J66849	[Ala <sup>4</sup> ] Myelin Basic Protein (1-11)
J66725	[Ala <sup>5</sup> , beta-Ala <sup>8</sup> ] Neurokinin A (4-10)
J66658	[Ala <sup>9</sup> ] Autocamtide 2
J66351	[Ala <sup>9</sup> , <sup>1</sup> , <sup>0</sup> , Lys <sup>1</sup> <sup>1</sup> , <sup>1</sup> , <sup>2</sup> ] Glycogen Synthase (1-12)
J66635	Allatostatin I
J66779	Allatostatin II
J66599	Allatostatin III
J66648	Allatostatin IV
J66879	Alloferon 1
J66965	Alloferon 2
J66473	alpha-Bag Cell Peptide (1-7)
J66412	alpha-Bag Cell Peptide (1-8)
J66242	alpha-Bag Cell Peptide (1-9)

J66070	alpha-Casein (90-95)
J66166	alpha-Conotoxin EI, Conus ermineus
J66753	alpha-Conotoxin MI
J66745	alpha-Conotoxin SIA
J63462	alpha-Endorphin, human
J66240	alpha-Gliadin (43-49)
J66287	alpha-Helical Corticotropin Releasing Factor (12-41)
J66772	alpha-Helical Corticotropin Releasing Factor (9-41)
J66484	alpha-Mating Factor (1-6)
J66502	alpha-Mating Factor, yeast
J64310	alpha-Melanocyte Stimulating Hormone amide
J66018	Alytesin
J66863	Amylin (1-13), human
J66516	Amylin (8-37), human
J66544	Amylin (8-37), rat
J66984	Amylin, human
J66825	Amylin, human, amide
J66499	Amyloid beta (1-11)

	J66562	Amyloid beta (1-16)
	J66757	Amyloid beta (1-28)
	J66913	Amyloid beta (1-38)
	J66277	Amyloid beta (1-40)
	J66387	Amyloid beta (1-42), human
	J66591	Amyloid beta (1-42), hydrochloride
	J66250	Amyloid beta (1-42), rat
	J66715	Amyloid beta (22-35)
	J66808	Amyloid beta (25-35)
	J66533	Amyloid beta (31-35)
	J66918	Amyloid beta (32-35)
	J66826	Amyloid beta (35-25)
	J66204	Amyloid beta (40-1)
	J66031	Amyloid beta (42-1)
	J66535	Amyloid beta (6-20)
	J66187	Angiogenin (108-122)
	J66320	Angiogenin (108-123)
	J63143	Angiotensin Converting Enzyme Inhibitor

J62102	Angiotensin I (human)
J66457	Angiotensin II (3-8), human
J66076	Angiotensin II Antipeptide
J60866	Angiotensin II (human)
J66360	Angiotensin III Antipeptide
J61756	Angiotensin III (human)
J66239	Angiotensinogen (1-14), porcine
J66045	Antagonist G
J66692	Antide acetate
J66374	Antiestrogen
J66059	Antifreeze Polypeptide (AFP) (HPLC-6), Winter Flounder
J66179	Anti-Inflammatory Peptide 1
J66503	Anti-Inflammatory Peptide 2
J66189	Anti-Inflammatory Peptide 3



XOVI	J66875	Antileukinate
XOVI	J66464	Anxiety Peptide
XOVI	J60961	Apamin
XOVI	J66079	Apelin-12
XOVI	J66620	Apelin-13, human, bovine
XOVI	J66238	Apelin-36, human
		Apelin-36 is an endogenous apelin receptor (APJ) agonist. It binds with high affinity to human APJ receptors expressed in HEK 293 cells. It has been shown to block entry of some HIV-1 and HIV-2 strains into NP-2/CD4 cells expressing APJ receptors
XOVI	J66462	Arg-Arg-Leu-Ile-Glu-Asp-Ala-Glu-Tyr(PO <sub>3</sub> H <sub>2</sub> )-Ala-Ala-Arg-Gly-NH <sub>2</sub>
XOVI	J65468	Arg-Gly-Asp
XOVI	J64877	Arg-Gly-Asp-Ser
XOVI	J66889	Arg-Gly-Tyr-Ala-Leu-Gly
XOVI	J66441	Arg-Gly-Tyr-Val-Tyr-Gln-Gly-Leu
XOVI	J66858	Arg-Lys-Arg-Ala-Arg-Lys-Glu
XOVI	J66105	[Arg <sup>0</sup> ] Met-Enkephalin
XOVI	J66706	[Arg <sup>3</sup> ] Substance P
XOVI	J66551	[Arg <sup>8</sup> ] Vasotocin
XOVI	J66559	[Asn <sup>8</sup> , Leu <sup>1</sup> <sup>8</sup> ] Parathyroid Hormone (1-34), human
XOVI	J61523	Aspartame, 98%
XOVI	J66926	Asp-Asp-Asp-Asp-Asp

XOH	J66909	Asp-Tyr-Lys-Asp-Asp-Asp-Asp-Lys
XOH	J66398	Atrial Natriuretic Peptide (1-28), biotin labeled, human, porcine
XOH	J66375	Atrial Natriuretic Peptide (1-28), human
XOH	J66241	Atrial Natriuretic Peptide (1-29), chicken
XOH	J66170	Axltide
XOH	J66729	B-9430
XOH	J66855	Bactenecin, bovine
XOH	J66932	BAM-12P
XOH	J66007	BAM-12P (7-12)
XOH	J66217	BAM-22P
XOH	J66075	Benzoyl-Phe-Ala-Arg
XOH	J66848	[beta-Ala <sup>8</sup> ] Neurokinin A (4-10)
XOH	J66153	beta-Bag Cell Peptide
XOH	J66782	beta-Casomorphin (1-3)
XOH	J66008	beta-Casomorphin (1-3), amide
XOH	J66979	beta-Casomorphin (1-4), amide, bovine
XOH	J66394	beta-Casomorphin (1-4), bovine
XOH	J66178	beta-Casomorphin (1-5), amide, bovine

J66912	beta-Casomorphin (1-5), bovine
J66405	beta-Casomorphin (1-6), bovine
J62271	beta-Casomorphin, human, 95+%
J62374	beta-Endorphin, human
J66333	beta-Lipotropin (1-10), porcine
J66662	Big Endothelin-1 (1-39), rat
J66002	Big Endothelin-2 (22-37), human
J66163	Big Endothelin-2 (22-38), human
J66982	Big Gastrin 1, human
J66673	Biotin-Adrenocorticotrophic Hormone (1-39), human
J66732	Biotin-Glucagon Like Peptide 1 (7-36) amide, human
J66629	Biotin-Neuropeptide Y, human, rat
J66887	Biotin-Parathyroid Hormone (1-34), human
J66653	Biotin-Substance P

J66053	Biotinyl-Glucagon (1-29), human, bovine, porcine
J66905	Biotinyl-[Glu <sup>1</sup> ]-Gastrin I, human, (phosphorylated)
J66346	Biotinyl-PTH-Related Protein (1-34), human, rat
J63514	Bombesin
J66249	Bone Gla Protein (45-49)
J63742	Borate, 0.5M buffer soln., pH 8.0
J66169	BQ-123
J63131	Bradykinin
J61719	Bradykinin (1-3)
J63233	Bradykinin (1-5)
J66937	Bradykinin (1-6)
J66481	Bradykinin (1-7)
J66218	Bradykinin (2-9)
J60345	Bradykinin acetate salt
J66167	Brain Natriuretic Peptide (1-32), human
J66536	Brain Natriuretic Peptide (1-32), porcine
J66043	Brain Natriuretic Peptide (1-32), rat
J66078	Brain Natriuretic Peptide (1-45), rat

X00L	J66276	Brain Natriuretic Peptide (7-32), porcine
X00L	J61348	Busulfan, 98%
X00L	J66952	C3 Peptide P16
X00L	J66809	Cadherin Peptide, avian
X00L	J64320	Caerulein, sulfated
X00L	J64415	Calcitonin (8-32), salmon
X00L	J65912	Calcitonin Gene Related Peptide (8-37), human
X00L	J66470	Calcitonin Gene Related Peptide (8-37), rat
X00L	J65667	Calcitonin Gene Related Peptide, human
X00L	J64037	Calcitonin Gene Related Peptide II, human
X00L	J66762	Calcitonin Gene Related Peptide II, rat
X00L	J66827	Calcitonin Gene Related Peptide, rat
X00L	J63192	Calcitonin, human, 96%
X00L	J63531	Calcitonin, salmon
X00L	J66428	Caloxin 2A1
X00L	J61766	Calpain Inhibitor I, 95+%
X00L	J62491	Calpain Inhibitor II, 95+%
X00L	J62919	Calpain Inhibitor III, 95+%

J60647	Calphostin C, 95%
J66795	cAMP Dependent PK Inhibitor, PKI (14-24), amide
J66438	cAMP Dependent Protein Kinase Inhibitor (PKI 5-24)
J66597	CART (1-39), human, rat
J66205	CART (55-102), human
J66304	CART (55-76), rat
J66146	CART (62-102), human, rat
J66530	CART (62-76), human, rat
J12840	Casein, Hammarsten, Ultrapure, Thermo Scientific
J12845	Casein, high nitrogen, Ultrapure, Thermo Scientific
J12855	Casein hydrolysate, enzymatic digest, Ultrapure, Thermo Scientific
J66383	Casein Kinase II Substrate
J66974	Caspase-2 Substrate, chromogenic
J66300	Caspase-3 Inhibitor I, cell permeable

J66881	Caspase-3 Substrate III, fluorogenic
J66767	Caspase-3 Substrate V, fluorogenic
J66513	Caspase-7 Substrate I, fluorogenic
J66050	Caspase-8 Inhibitor I, cell permeable
J66506	Cathepsin D, human liver
J66927	CD36 Peptide P (139-155)
J66970	CD36 Peptide P (93-110) This peptide sequence binds OKM5, a monoclonal anti-CD36 antibody. CD36 Peptide P (93-110) enhances ADP-induced and collagen-induced aggregation. It also augments the interaction of CD36 to thrombospondin in platelet-rich plasma.
J66789	CDC25C
J66741	Cecropin A (1-7) -Melittin (2-9) Hybrid Peptide A 15-residue hybrid peptide incorporating partial sequences of cecropin A and melittin.
J66814	Cecropin A (1-8)-Melittin (1-18) amide
J66546	Cecropin A, porcine
J66068	Cecropin B, amide
J66041	Cecropin B, free acid
J66344	Cecropin P1, porcine
J66485	CEF10
J66386	CEF3
J66896	CEF4
J66340	CEF6

J66631	Cerebellin
J66877	Charybdotoxin
J65184	Chemotactic Peptide
J66021	Cholecystokinin (26-33), free acid
J66378	Cholecystokinin (26-33), non-sulfated
J66940	Cholecystokinin, CCK (27-33)
J66669	Cholecystokinin, CCK Octapeptide (26-33)
J66589	Cholecystokinin, CCK Tetrapeptide (30-33)
J66259	Cholecystokinin Flanking Peptide, non-sulfated
J66711	Chromogranin A (324-337), human
J66182	Chromostatin, bovine
J66784	Chymotrypsin Substrate III, fluorogenic
J66440	CKS-17
J66846	C-Myc Peptide
J66100	Conantokin G
J66487	Corticostatin, rabbit
J66353	Corticotropin Releasing Factor, bovine
J66835	Corticotropin-Releasing Factor, human, rat



J66708	Corticotropin Releasing Factor, ovine
J66255	Cortistatin 14
J66998	Cortistatin 29
J66573	C-Peptide, dog
J66298	C-Peptide, human
<p>C-Peptide promotes proper protein folding and disulfide bond placement during insulin biosynthesis. After synthesis is completed the peptide is cleaved. C-Peptide is a marker for <math>\beta</math> cell function <i>in vivo</i>; levels are enhanced in insulin resistance or insuloma and reduced in insulin insufficiency (type I diabetes).</p>	
J66434	CREBtide
J66453	Crustacean Cardioactive Peptide
J66134	Crystalline Peptide
J66219	CTAP
J66595	C-telopeptide
J66101	CTX IV (6-12)
J66136	C-Type Natriuretic Peptide (1-53), human
J66540	C-Type Natriuretic Peptide (32-53), human
J66410	C-Type Natriuretic Peptide, chicken

# Carbohydrates and Derivatives



Carbohydrates are important biological macromolecules that consist of carbon, hydrogen, and oxygen in a 1:2:1 ratio. Carbohydrates are organic compounds organized in the form of aldehydes or ketones with multiple hydroxyl groups coming off the carbon chain. Carbohydrates are the most abundant organic compounds in living organisms. Their major function in living systems is the storage and transport of energy. They can also have structural, informational, recognition, and protective functions. Monosaccharides, the simplest carbohydrate units, are commonly known as simple sugars. Chains of more than one sugar are called oligosaccharides.

Carbohydrate derivatives are sugar molecules that have been modified with substituents other than hydroxyl groups. Examples include glycosylamines, sugar phosphates, and sugar acetates. Most sugar derivatives occur naturally and have important biological functions. For instance, chondroitin sulfate is an important structural component of cartilage and provides much of its resistance to compression. Alfa Aesar offers a large range of carbohydrates and carbohydrate derivatives.















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




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	J66685	1,2,3,4,6-Penta-O-acetyl-alpha-D-mannopyranose, 98%
	J66973	1,2,3,4,6-Penta-O-acetyl-D-mannopyranose, 98%
	J66307	1,2,3,4-Tetra-O-acetyl-beta-D-glucopyranose, 98%
	J66623	1,2,3,4-Tetra-O-acetyl-beta-D-ribose, 98%
	J66505	1,2:3,5-Di-O-isopropylidene-alpha-D-xylofuranose
	J66074	1,2,3,5-Tetra-O-acetyl-beta-L-ribofuranose, 98%
	J66930	1,2,3,5-Tetra-O-benzoyl-2-C-methyl-beta-D-ribofuranose, 98%
	J66818	1,2,3-Tri-O-acetyl-5-deoxy-beta-D-ribofuranose, 98%
	J66388	1,2:5,6-Di-O-isopropylidene-alpha-D-allofuranose, 98%
	J66761	1,2-O-Cyclohexylidene-alpha-D-glucofuranose, 97%
	J66110	1,2-O-Isopropylidene-alpha-D-xylofuranose, 98%
	J66975	1,3,4,6-Tetra-O-acetyl-beta-D-glucosamine hydrochloride
	J66805	1,3,5-Tri-O-benzoyl-2-deoxy-2-fluoro-alpha-D-arabinofuranose
	J60592	1,3-Dihydroxyacetone dimer

J66914	1,6-Anhydro-beta-D-cellobiose, 95%
J61277	(+)-1-Deoxymannojirimycin hydrochloride
J62602	(+)-1-Deoxynojirimycin
J66458	1-Deoxynojirimycin hydrochloride, 98%
A11180	1-Hexadecanol, 98%
J63004	1-Naphthyl phosphate monosodium salt monohydrate, 97+%
J66537	2,3:4,5-Di-O-isopropylidene-beta-D-fructopyranose, 98%
J66608	2,3:4,5-Di-O-isopropylidene-D-arabitol, 98%
J66190	2,3:4,6-Di-O-isopropylidene-alpha-L-sorbofuranose, 98%
J66137	2,3,4,6-Tetra-O-acetyl-alpha-D-mannopyranosyl fluoride, 98%
J66052	2,3,4,6-Tetra-O-acetyl-D-glucopyranose, 98%
J66303	2,3:5,6-Di-O-isopropylidene-alpha-D-mannofuranose, 98%
J66165	2,3,5-Tri-O-benzyl-1-O-(4-nitrobenzoyl)-D-arabinofuranose, 98%
J66853	2,3,5-Tri-O-benzyl-beta-D-arabinofuranose
J66252	2,3,5-Tri-O-benzyl-beta-D-ribofuranose, 98%
J66792	2,3,5-Tri-O-benzyl-D-arabinofuranose
J66343	2,3,5-Tri-O-benzyl-L-arabinofuranose, 98%
J66024	2,3,6,2',3',4',6'-Hepta-O-acetyl-alpha-D-cellobiosyl bromide
J66385	2,3,6,2',3',4',6'-Hepta-O-acetyl-alpha-D-lactosyl bromide

	J66871	2,3-O-Isopropylidene-D-erythrone, 98%
	J66337	2,3-O-Isopropylidene-D-glyceraldehyde, 50% w/w in dichloromethane
	J66442	2,3-O-Isopropylidene-D-ribonic acid-1,4-lactone, 97+%
	J66517	2-Cyclohexylethyl-4-O-(alpha-D-glucopyranosyl)-beta-D-glucopyranoside, 99%
	J65482	2-Deoxy-D-galactose, 99%
	L07338	2-Deoxy-D-glucose, 98%
	J66609	2-Keto-D-gluconic acid hemicalcium salt monohydrate, 99%
	J66601	2-O-alpha-D-Glucopyranosyl-L-ascorbic acid, 98+%
	J66904	3,4,6-Tri-O-acetyl-D-galactal
	J66202	3,4,6-Tri-O-benzyl-D-galactal
	J66944	3,4-Di-O-acetyl-6-deoxy-L-glucal, 98%
	J66223	3-Deoxy-D-glucosone, 95%
		3-Deoxy-D-glucosone is a highly reactive 2-oxoaldehyde intermediate of the Maillard reaction. It is produced during oxidative stress in response to excess sugar consumption and in association with diabetes. It is also derived from fructose, which is present in high levels in diabetic patients, by a self-condensation reaction. It is a precursor for the formation of advanced glycation endproducts.
	J66185	3-O-Benzyl-1,2:5,6-di-O-isopropylidene-alpha-D-glucopyranose, 97%
	J66578	3-O-Benzyl-1,2:5,6-di-O-isopropylidene-alpha-D-glucopyranose, 98%
	J66583	4,6-O-Ethylidene-D-glucopyranose, 90%
	J66102	4-Formylphenyl beta-D-allopyranoside, 98%
	J66422	4-Methoxyphenyl beta-D-glucopyranoside, 98%











	J66025	4-Methylphenyl 2,3,4,6-tetra-O-acetyl-beta-D-thiogalactopyranoside
	J66686	4-Methylphenyl beta-D-thiogalactopyranoside, 98%
	J33230	4-Methylumbelliferyl-alpha-L-iduronide sodium salt, synthetic, Thermo Scientific
	J66630	4-Methylumbelliferyl beta-D-glucopyranoside, 99%
	J66091	4-Methylumbelliferyl phosphate, 99%
	J66160	4-Methylumbelliferyl sulfate potassium salt, 98%
	J66026	4-Nitrophenyl alpha-D-mannopyranoside, 98%
	J34131	4-Nitrophenyl-alpha-L-fucopyranoside, Thermo Scientific
	J19594	4-Nitrophenyl-beta-D-glucopyranoside, Thermo Scientific
	J34136	4-Nitrophenyl-beta-D-glucuronide, Thermo Scientific
	J34142	4-Nitrophenyl-beta-D-xylopyranoside, Thermo Scientific
	J65978	5-Bromo-3-indolyl beta-d-galactopyranoside, 98+%
	J66916	5-Keto-D-gluconic acid potassium salt, 98%
	J63621	5-Thio-D-glucose, 97+%
	36499	Acacia, Total ash <4%
	L03253	Adonitol, 99%
	J66968	Aescin, 98%
	A11492	alpha-Chloralose, 98+%, beta anomer ca 20%















	J60687	alpha-Cyclodextrin, 97+%
	J66366	alpha-D-Galactose pentaacetate
	J66159	alpha-D-Glucose-1-phosphate dipotassium salt hydrate, 98%
	J60439	alpha-D-(+)-Melibiose
	L14945	Arbutin, 98+%
	J66254	Benzyl 2,3-O-isopropylidene-alpha-D-mannofuranoside
	J66981	Benzyl 2-acetamido-4,6-O-benzylidene-2-deoxy-alpha-D-glucopyranoside
	J63161	beta-Cyclodextrin
	J66172	beta-D-Allopyranose, 97%
	J66750	beta-D-Gentiobiose, 98%
	L09020	beta-D-Glucosamine pentaacetate, 96%
	J66838	beta-D-Thioglucose sodium salt, 97%
	J66947	Calcium D-saccharate tetrahydrate, 98%
	J66279	Calcium L-threonate, 98%
	A17730	Cellulose, microcrystalline
	J61206	Chitin
	J60341	Chondroitin sulfate, 90+%
	J66156	Chondroitin sulfate A sodium salt, 90%

	J61472	D-Amygdalin, 98%
	L12731	D-Amygdalin hydrate, 96%
	A10357	D-(-)-Arabinose, 99%
	A17801	D-(+)-Arabitol, 99%
	A14553	D-(+)-Cellobiose, 98+%
	L08780	D-Cellobiose octaacetate
	J14535	D-(+)-Dextrose, anhydrous, Thermo Scientific
	J66423	Decyl beta-D-glucopyranoside
	J66644	Decyl beta-D-maltopyranoside, 97+%
	J63789	Dextran, MW ca 150,000
	J61216	Dextran, MW ca 20,000
	J60200	Dextran, MW ca 250,000
	J63690	Dextran, MW ca 40,000
	J63702	Dextran, MW ca 500,000
























	J62775	Dextran, MW ca 6,000
	J60989	Dextran, MW ca 75,000
	J63606	Dextran sulfate sodium salt, MW ca 40,000
	J62787	Dextran sulfate sodium salt, MW ca >500,000
	J62101	Dextran sulfate sodium salt, MW ca 8,000
	J14489	Dextran sulfate sodium salt, Thermo Scientific
	J70796	Dextran sulfate sodium salt, Ultrapure, Thermo Scientific
	J14495	Dextran, Ultrapure, Thermo Scientific
	A15717	Dextrin, precipitated by alcohol
	J66349	D-Fructose-1,6-bisphosphate trisodium salt
	J66256	D-Fructose 1,6-bisphosphate trisodium salt octahydrate, 98%
	J66477	D-Fructose-1,6-diphosphate dicalcium salt, 95%
	J66311	D-Fructose-6-phosphate disodium salt, 95%
	A17718	D-Fructose, 99%
	J66610	D-Galacto-D-mannan
	L07462	D-Galactosamine hydrochloride, 98%
	A12813	D-(+)-Galactose, 98%
	J15995	D-(+)-Galactose, 99+%, Thermo Scientific



















	J66282	D-Galacturonic acid monohydrate, 97%
	A13105	D-(+)-Glucono-1,5-lactone, 99%
	A15532	D-Glucosamine hydrochloride, 98+%
	J66271	D-Glucosamine sulfate, 98%
	J66023	D-Glucose-6-phosphate disodium salt hydrate, 98%
	A16828	D-(+)-Glucose, anhydrous, 99%
	A11090	D-(+)-Glucose monohydrate
	47263	D-(+)-Glucose monohydrate, 99%
	J66047	D-Glucuronamide, 98%
	L14350	D-Glucuronic acid, 98+%
	A15861	D-Glucurono-6,3-lactone, 99%
	J66987	D-Gulonic acid-1,4-lactone, 98%
	J66376	D-Lactose
	J18185	D-(+)-Lactose monohydrate, Thermo Scientific
	L09895	DL-Arabinose, 98+%
	J18725	D-(+)-Maltose monohydrate, 92+% (dry basis), Ultrapure, Thermo Scientific
	A16266	D-(+)-Maltose monohydrate, 95%
	A14030	D-Mannitol, 97+%



















	33342	D-Mannitol, ACS
	J66316	D-Mannosamine hydrochloride, 98%
	A10842	D-(+)-Mannose, 99%
	B22209	D-(+)-Melezitose hydrate, 99%
	J66978	D-myo-Inositol-1,2,3,4-tetrakis(phosphate) sodium salt
	J66588	D-myo-Inositol-1,2,3,5-tetrakis(phosphate) sodium salt
	J66556	D-myo-Inositol-1,2,3,6-tetrakis(phosphate) sodium salt
	J66138	D-myo-Inositol-1,2,4,5-tetrakis(phosphate) sodium salt This inositol phosphate acts as an agonist of the Ins(1,4,5)P <sub>3</sub> receptor expressed in CHO cells where it induces calcium mobilization with an ED <sub>50</sub> value of 0.22 μM.
	J66647	D-myo-Inositol-1,2,5,6-tetrakis(phosphate) sodium salt
	J66721	D-myo-Inositol-1,2,6-trisphosphate sodium salt
	J66420	D-myo-Inositol-1,2-bisphosphate sodium salt
	J66461	D-myo-Inositol-1,3,4,5-tetrakis(phosphate) octasodium salt
	J66936	D-myo-Inositol-1,3,4,6-tetrakis(phosphate) ammonium salt
	J66963	D-myo-Inositol-1,3,4-trisphosphate sodium salt

J66819	D-myo-Inositol-1,3,5-trisphosphate sodium salt
J66860	D-myo-Inositol-1,4,5,6-tetrakis(phosphate) sodium salt
J67063	D-myo-Inositol-1,4,5-trisphosphate sodium salt
J67112	D-myo-Inositol-1,4,6-trisphosphate sodium salt
J67200	D-myo-Inositol-1,4-bisphosphate sodium salt
J67076	D-myo-Inositol-1,5,6-trisphosphate sodium salt
J67196	D-myo-Inositol-1,5-bisphosphate sodium salt
J67121	D-myo-Inositol-1-phosphate cyclohexylammonium salt
J67038	D-myo-Inositol-1-phosphate sodium salt
J67024	D-myo-Inositol-2,3,4,5-tetrakis(phosphate) ammonium salt
J67178	D-myo-Inositol-2,3,5,6-tetrakis(phosphate) sodium salt
J67016	D-myo-Inositol-2,3,5-trisphosphate ammonium salt
J67156	D-myo-Inositol-2,4,5-trisphosphate sodium salt
J67078	D-myo-Inositol-2,4-bisphosphate sodium salt
J67044	D-myo-Inositol-2,5,6-trisphosphate sodium salt
J66942	D-myo-Inositol-3,4,5,6-tetrakis(phosphate) sodium salt
J67088	D-myo-Inositol-3,4,5-trisphosphate sodium salt
J67072	D-myo-Inositol-3-phosphate sodium salt















	J67010	D-myo-Inositol-4-phosphate ammonium salt
	A18313	D-(+)-Raffinose pentahydrate, 99%
	J21060	D-(+)-Raffinose pentahydrate, Thermo Scientific
	J66266	D-Ribonic acid-1,4-lactone
	J66017	D-Ribose-5-phosphate barium salt hexahydrate, 99%
	J66815	D-Ribose-5-phosphate disodium salt hydrate, 85%
	A17894	D-(-)-Ribose, 98%
	J21710	D-Sorbitol, 91.0-100.5% (dry basis), Ultrapure, Thermo Scientific
	36404	D-Sorbitol, 98%
	J66121	D-Sorbitol hexaacetate, 97%
	B21208	D-Sorbose, 98%
	B21192	D-Tagatose, 99%
	M10380	D-(+)-TREHALOSE, 99%
	J66006	D-(+)-Trehalose, anhydrous
	A19434	D-(+)-Trehalose dihydrate, 99%
	B21224	D-Turanose, 98%
	A18402	Dulcitol, 97%
	J63206	Dulcitol, 99%














	A10643	D-(+)-Xylose, 98+%
	H27621	Ethyl cellulose
	J66576	Heptyl beta-D-glucopyranoside, 99%
	A12486	Hydantoin, 99%
	J66324	Icariin, 98%
	A18425	Inulin
	J64186	Isomaltotriose, 97%
	J66368	Lactobionic acid, 97%
	J66695	Lactose octaacetate, 98%
	J60160	Lactulose, 99%
	J66193	Laminarin
	A16902	Lanolin
	A11921	L-(+)-Arabinose, 99%
	A13103	L-(-)-Arabitol, 98%

	A16789	L-(-)-Fucose, 98%
	B21448	L-(-)-Galactose, 98%
	J66934	L-Gulonic acid-1,4-lactone, 95%
	J18160	L-(+)-Lactic acid lithium salt, Thermo Scientific
	J63221	L-(-)-Malic acid, 99%
	A17722	L-(-)-Mannose, 99%
	J67018	L-myo-Inositol-1,4,5-trisphosphate sodium salt
	A16166	L-(+)-Rhamnose monohydrate, 98+%
	B21117	L-(+)-Ribose, 99%
	B21622	L-(-)-Xylose, 99%
	J18724	Maltose monohydrate, 98+%, Thermo Scientific
	J66491	Maltotriose, 98%
	A15813	meso-Erythritol, 99%
	J66260	Methyl 2,3,6-tri-O-benzoyl-alpha-D-galactopyranoside, 98%
	J66296	Methyl 2,3-O-isopropylidene-beta-D-ribofuranoside, 98%
	J66834	Methyl 6-O-(N-heptylcarbamoyl)-alpha-D-glucopyranoside, 98%
	J66406	Methyl alpha-D-xylopyranoside, 98%
	J66847	Methyl-beta-cyclodextrin

	J66828	Methyl beta-D-ribofuranoside, 98%
	J66727	Methyl beta-D-xylopyranoside, 98%
	45490	Methyl cellulose, viscosity 15 cPs
	43146	Methyl cellulose, viscosity 1600 cPs
	36718	Methyl cellulose, viscosity 4000 cPs
	43147	Methyl cellulose, viscosity 400 cPs
	43483	Methyl cellulose, viscosity 8000 cPs
	A13586	myo-Inositol, 98+%
	J60828	myo-Inositol, 99%
	J66095	N-Acetyl-D-galactosamine
	A13047	N-Acetyl-D-glucosamine, 98+%
	L11167	N-Acetyl-D-mannosamine monohydrate, 99%
	J66830	Naringin dihydrochalcone, 98%
	J66613	N-Butyldeoxynojirimycin, 98%
	J66173	n-Dodecyl beta-D-glucopyranoside
	J66869	n-Dodecyl-beta-D-maltopyranoside
	J66531	n-Hexadecyl beta-D-maltopyranoside, 98%
	L14282	N-Methyl-D-glucamine, 99%



	J66009	Nonyl beta-D-glucopyranoside, 98%
	J60091	Palatinose hydrate, 98+%
	J61021	Pectin Citrus
	J66122	Phenyl 2,3,4,6-tetra-O-acetyl-beta-D-thiogalactopyranoside, 98%
	J66355	Phenyl 2,3,4,6-Tetra-O-acetyl-beta-D-thioglucopyranoside, 98%
	J66012	Phenyl 4,6-O-benzylidene-beta-D-glucopyranoside, 98%
	J66885	Phenyl beta-D-glucopyranoside, 98%
	B25502	Phloroglucinol, anhydrous, 98%
	J66528	Puerarin, 98%
	J66961	Pullulan
	A13080	Resorcinol, 99%
	36248	Resorcinol, ACS, 99.0-100.5%
	36734	Rosin
	A18820	Saponin

	A10464	Sodium D-gluconate, 97%
	J66724	Sodium galacturonate anhydrous, 98%
	J66811	Sodium glucoheptonate
	J62576	Sorbitan monooleate
	J62648	Sorbitan sesquioleate
	A11961	Starch, from potato, soluble
	J32823	Starch, hydrolyzed, from potato, Ultrapure, Thermo Scientific
	J66736	Sucralose, 98%
	A15583	Sucrose, 99%
	36508	Sucrose, ACS
	J66195	Sucrose diacetate hexaisobutyrate
	J66083	Sucrose octabenzate, 98%
	J66627	Sucrose palmitate, 90%
	J66845	Sucrose stearate
	A18502	Tragacanth powder
	J62962	Trilaurin
	J62819	Trimyristin, 95%
	J62419	Triolein, tech.

# Vitamins

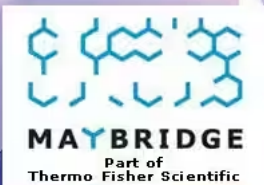


Vitamins are organic compounds required as nutrients in organisms. They are essential to normal metabolism. Organisms do not synthesize sufficient amounts of vitamins and must obtain them through their diet. Vitamins are classified by their biological and chemical activity, not their structure. Thus, each vitamin refers to a number of vitamer compounds that all show the biological activity associated with a particular vitamin family. Vitamins have diverse biochemical functions. Some vitamins, like vitamin D, have hormone-like functions as regulators of mineral metabolism while others, like vitamin E, function as antioxidants. Others still, like members of the B family of vitamins function as precursors for enzyme cofactors that help enzymes work as catalysts in metabolism. Alfa Aesar supplies the compounds that are vitamins in humans in several grades and purities.













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	J61666	13-cis-Retinoic acid
	A13593	2-Methyl-1,4-naphthoquinone, 98%
	J62219	9-cis-Retinoic acid
	44771	(+)-Biotin N-succinimidyl ester, 98%
	J61610	Calciferol
	J62163	Calciferol, 97%
	J67241	Chloroform, Molecular Biology Reagent
	J64657	Choline bitartrate, 98+%
	J13410	Choline chloride, 98+% (dry basis), Thermo Scientific
	36664	Citric acid, anhydrous, ACS, 99.5+%
	A14207	D-(+)-Biotin, 98+%
	J62821	Deblock trichloroacetic acid soln., 3% w/w in dichloromethane

	J18505	DL-alpha-Lipoic acid, 98+% (dry basis), Thermo Scientific
	A17039	DL-alpha-Tocopherol, 97+%
	A18499	D-Panthenol, 98+%
	A16609	D-Pantothenic acid calcium salt, 98%
	J15562	Ergocalciferol, 97.0-103.0%, Thermo Scientific
	A14495	Flavin adenine dinucleotide disodium salt hydrate, 94% (dry wt.), water <10%
	J60833	Folic acid, crystalline
	A14300	Folic acid dihydrate, 97%
	J67520	Formamide, 99%
	J67206	Formamide, Ultra Pure, 99.5% min
	32791	L-Ascorbic acid 6-palmitate, 99%
	11188	L-(+)-Ascorbic acid, 98+%
	A15613	L-(+)-Ascorbic acid, 99+%
	36237	L-(+)-Ascorbic acid, ACS, 99+%
	A17759	L-Ascorbic acid sodium salt, 99%
	A11176	Methylcobalamin hydrate, 97%
	A15970	Nicotinamide, 99%
	A12683	Nicotinic acid, 99%
	J62215	Nicotinuric acid, 98+%

	A12323	Pyridoxal-5-phosphate hydrate, 98%
	44540	Retinoic acid, 97%
	J62079	Retinol, 95%, synthetic
	A11764	Riboflavin, 98%
	J63736	Sodium hydroxide, 10N aq. soln.
	A19560	Thiamine hydrochloride, 99% (dry wt.), may cont. up to 5% water
	J60014	Thiamine nitrate
	J62355	Trichloroacetic acid, 10% w/v aq. soln.
	J62366	Trichloroacetic acid, 5% w/v aq. soln.
	A16237	Vitamin A acetate in gelatin, 500,000 I.U./g
	J63022	Vitamin A palmitate, 1.7 M.I.U./g
	A14894	Vitamin B12, 98+% (dry wt basis)
	B22524	Vitamin D3, 99%
	A14505	Vitamin E acetate, 97%
	L10575	Vitamin K <sub>1</sub>
	J62087	Water, DEPC-Treated

# Fatty Acids



In biochemistry, a fatty acid is a carboxylic acid with a long unbranched aliphatic chain. The aliphatic chain may be either saturated or unsaturated. Chains of even numbered length predominate in nature. In biology, fatty acids are usually derived from triglycerides or phospholipids. Fatty acids are important components of cell membranes. When stored as triglycerides, fatty acids can be used as important sources of fuel for brain, heart and skeletal muscle cells. Alfa Aesar supplies a broad range of fatty acids for research use. We also provide fatty acid and lipid derivatives such as sphingosines, ceramides, and phosphatidyl inositol phosphates.

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A19122 10-Undecenoic acid, 99%



46716 11-Maleimidoundecanoic acid



B25121 12-Aminododecanoic acid, 96%



A18862 2-Dodecanone, 95%



A13168 Adipoyl chloride, 98%



A12850 Behenic acid, tech. 85%



L13189 Butyric acid, 99+%



A16269 Calcium glycerophosphate hydrate, 97%



L04224 Castor oil



A14771 Cholesteryl stearate, 96%



A14788 Decanoic acid, 99%



H52427 D-erythro-Sphingosine hydrochloride, 97%






















B21174 Dimethyl adipate, 99%



A14156 Ethyl phenoxyacetate, 99%



	A16205	Glycerol, 99+%
	A14025	Glycerol monoacetate, tech., mixture of isomers, cont. varying amounts of diacetate
	A17132	Glycerol triacetate, 99%
	A11830	Glycerol tributyrates, 97%
	A10922	Glycerol tripalmitate, 98%
	A13789	Hexanoic acid, 98+%
	A16902	Lanolin
	36486	Lecithin, Refined
	L07949	Linoleic acid, 95%
	A10991	Methyl octanoate, 98+%
	A11149	Octanoic acid, 98+%
	31997	Oleic acid, 99%
	A16663	Oleic acid, tech. 90%
	B20322	Palmitic acid, 95%
	A13451	Sodium octanoate, 96%
	L11435	Sorbitan monostearate
	A12244	Stearic acid, 98%
	A12067	Tetradecanoic acid, 98%
	A16101	Undecanal, 97%



## A11244 Undecanoic acid, 98%

Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

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