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
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
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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Технические характеристики на углеводы, хелатирующие агенты и агенты-редукторы, коэнзимы, моющие средства анионные, катионные, цвиттерионные, пеногасящие компании Sigma-Aldrich

Виды товаров: хелатирующие агенты в исследованиях, агенты-редукторы в исследованиях, моносахариды, глюкоза, фруктоза, фукоза, полисахариды, крахмал, декстран и целлюлозу, дисахариды, лактоза, сахароза, липополисахарид, олигосахариды, декстраны, строительные блоки, сахарные спирты, биоактивные малые молекулы, моющие средства моющие средства анионные, моющие средства катионные, моющие средства цвиттерионные, моющие средства пеногасящие и др.

Carbohydr ates for Research

Carbohydrates play a vital role in the biochemistry of living organisms, serving as key nutrients and primary energy sources. Also known as saccharides, carbohydrates can be classified into four groups based on their structure and size:

- **Monosaccharides**, such as **glucose**, **fructose** and **fucose**, are single sugar molecules.
- **Disaccharides**, like **lactose** and **sucrose**, are formed by linking two monosaccharides.
- **Oligosaccharides**, consisting of 3-9 monosaccharides, are important components of cell membranes and play a crucial role in cell signaling.
- **Polysaccharides**, made up of more than 9 monosaccharides, include **starch**, **dextran**, and **cellulose**, which serve as energy reserves in plants and animals.
- **Lipopolysaccharides** are polysaccharides predominantly found in gram-negative bacteria. They are typically used for immune response research, drug/vaccine development, sepsis modeling & metabolic, autoimmune, and cancer therapy.

We offer a wide range of high-quality carbohydrates for metabolomics, glycobiology/glycomics, microbiome, and nutrition research. Whether you are studying the biochemistry of diseases, developing new drugs, exploring the mechanisms of immune responses, or conducting any other research that requires reliable and pure carbohydrates, our products are the perfect choice to support your research needs.

CARBOHYDRATES IN CELL CULTURE

Carbohydrates play a vital role in providing energy to cells, making them an essential component of cell culture media. Glucose and galactose are the most commonly used sugars in cell culture media, but maltose and fructose can also provide energy. Pyruvate is another important source of energy included in some media formulations. Further, our products are widely used as supplements in cell culture media and are essential building blocks for the synthesis of glycans and glycoconjugates.

CARBOHYDRATES IN GLYCOBIOLIGY

Glycobiologists use carbohydrates to study cell recognition, signaling, and energy storage. Carbohydrates are also utilized to analyze glycoproteins, which play important roles in many biological systems. By using carbohydrates in their research, scientists can gain insights into the complex world of glycobiology and contribute to the advancement of medical science.

CARBOHYDRATES IN METABOLOMICS

Metabolomics investigates the small molecules generated by metabolic processes, including carbohydrates. Studying carbohydrates using techniques such as LC-MS and NMR can provide insight into disruptions in carbohydrate metabolism in diseases like diabetes, hypoglycemia, and metabolic syndrome. Understanding this can aid in developing new therapies for related conditions.

CARBOHYDRATES IN MICRONBIOME RESEARCH

Carbohydrates are essential for gut microbiota, which play a vital role in various biological processes. Microbiome researchers use metagenomics and metatranscriptomics techniques to study carbohydrate metabolism, revealing how diet affects the microbiome's composition and its impact on human health. Prebiotics, derived from carbohydrates, promote the growth of beneficial gut bacteria and are crucial for a healthy gut.

CARBOHYDRATES IN NUTRITION RESEARCH

Carbohydrates serve as the main source of fuel for both the brain and muscles and are also integral to various other vital biological processes, such as cell signaling and immune function. Nutrition research investigates the impact of carbohydrates on health outcomes such as body weight and diabetes risk. Studies examine simple and complex carbs, daily intake recommendations, glycemic index and create interventions for a variety of health conditions.

C1138
ι-Carrageenan
commercial grade, Predominantly iota carrageenan

85440
(−)-Sinigrin hydrate
≥99.0% (TLC)

S1647
(−)-Sinigrin hydrate
≥98% (HPLC), from horseradish

10830
(+)-Arabinogalactan
≥80% (HPLC), from larch wood

94259
(±)-Mevalonic acid 5-pyrophosphate tetralithium salt
≥80% (qNMR)

H9262
(Hydroxypropyl)methyl cellulose
viscosity 80-120 cP, 2 % in H_2O(20 °C)(lit.)

H7509
(Hydroxypropyl)methyl cellulose
viscosity 2,600-5,600 cP, 2 % in H_2O(20 °C)(lit.)

H8384
(Hydroxypropyl)methyl cellulose
viscosity 40-60 cP, 2 % in H_2O(20 °C)(lit.)

09963
(Hydroxypropyl)methyl cellulose

13368
1-Deoxy-D-xylulose-5-phosphate sodium salt
≥99.0% (TLC)

D6149
1-Deoxy-1-morpholino-D-fructose
≥98% (TLC)

SMB00939
1-Methyladenosine
≥95% (HPLC)

T6375
1-Thio-β-D-glucose sodium salt

A7165
1,5-Anhydro-D-sorbitol
crystalline, ≥98.0% (TLC)

316555
1,6-Anhydro-β-D-glucose
99%

SMB00933
2′-Fucosyllactose
≥95% (NMR)

SMB00406
2-Azidoethyl 2-acetamido-2-deoxy-β-D-galactopyranoside
≥95% (HPLC)

41707
2-C-Methyl-D-erythritol
≥90% (GC)

D4407
2-Deoxy-D-galactose
98%

D8375
2-Deoxy-D-glucose
≥98% (GC), crystalline

D8375
2-Deoxy-D-glucose
≥98% (GC), crystalline

D3179
2-Deoxy-D-glucose
≥98% (GC), BioXtra

31170
2-Deoxy-D-ribose
≥99.0% (TLC)

D5899
2-Deoxy-D-ribose
suitable for cell culture, BioReagent

121649
2-Deoxy-D-ribose
97% (GC)

75617
2-Deoxy-L-ribose
≥97.0% (TLC)

72987
2-Deoxy-2-[(7-nitro-2,1,3-benzoxadiazol-4-yl)amino]-D-glucose
≥97% (HPLC)

D6539
2-Deoxy-α-D-ribose 1-phosphate bis(cyclohexylammonium) salt
≥97% (TLC)

SMB00932
2-Deoxy-D-glucose 6-phosphate sodium salt
≥98% (HPLC)

D3126
2-Deoxyribose 5-phosphate sodium salt
≥95% (ICP-AES)

K6250
2-Keto-D-gluconic acid hemicalcium salt hydrate

P4902
2-Phenylethyl β-D-thiogalactoside
≥98% (TLC)

D9134
2,3-Diphospho-D-glyceric acid penta(cyclohexylammonium) salt
≥97% (TLC)

D5764
2,3-Diphospho-D-glyceric acid pentasodium salt
glycolysis metabolite

M1050
2α-Mannobiose
≥93% (HPLC)

A8681
3′-Sialyllactose
from bovine milk or colostrum, ≥97% (HPLC)

05616
3-Dehydroshikimic acid
≥95.0% (HPLC)

79156
3-Deoxy-2-keto-6-phosphogluconic acid lithium salt
≥95% (TLC)

75762
3-Deoxyglucosone
≥75% (TLC)

M4879
3-*O*-Methyl-D-glucopyranose
≥98%

A1394
4-Aminophenyl α-D-mannopyranoside
≥98% (TLC)

A9545
4-Aminophenyl β-D-galactopyranoside
≥98% (TLC), β-galactosidase substrate

G0886
4-O-β-Galactopyranosyl-D-mannopyranose
≥98.0% (HPLC)

K4125
5-Keto-D-gluconic acid potassium salt

≥98.0% (TLC)

P8296
5-Phospho-D-ribose 1-diphosphate pentasodium salt
≥75% (HPLC)

88635
5-Thio-D-glucose
≥98.0% (HPLC)

40817
6′-Sialyl-D-lactose
Na salt, ≥98.0% (HPLC)

37966
6′-Sialyl-N-acetyllactosamine sodium salt
Na salt, ≥97% (TLC)

A8556
6′-Sialyllactose sodium salt
from bovine milk or colostrum, ≥97% (HPLC)

M2314
6-Monodeoxy-6-monoamino-β-cyclodextrin hydrochloride

P6888
6-Phosphogluconic acid trisodium salt
≥95% anhydrous basis

P7877
6-Phosphogluconic acid trisodium salt
≥97% (enzymatic)

H6029
7-Hydroxycoumarin β-D-glucuronide sodium salt
≥95% (HPLC)

G0380
α-D-Galactose 1-phosphate dipotassium salt pentahydrate
Type II, ≥98% (HPLC)

G9753
α-D-Glucosamine 1-phosphate

G6875
α-D-Glucose 1-phosphate dipotassium salt hydrate

≥97% (HPLC)

G6750
α-D-Glucose 1-phosphate dipotassium salt hydrate
≥99% (HPLC), BioXtra

G7000
α-D-Glucose 1-phosphate disodium salt hydrate
≥97% (Enzymatic Purity, anhydrous)

49225
α-D-Glucose 1,6-bisphosphate potassium salt hydrate
≥99.0% (TLC)

G6893
α-D-Glucose 1,6-bisphosphate potassium salt hydrate
synthetic, ≥98% (TLC)

G5875
α-D-Glucose 1,6-bisphosphate tetra(cyclohexylammonium) salt hydrate
≥95% dry basis

M9271
α-D-Mannopyranosylphenyl isothiocyanate
>98% (TLC)

M6633
α-D-Mannose pentaacetate

M1755
α-D(+)Mannose 1-phosphate sodium salt hydrate
≥98% (TLC), Sigma Grade

23120
α-Chloralose
≥98.0% (chloralose, AT)

C0128
α-Chloralose

68264
α-Hydroxyisobutyronitrile β-D-glucopyranoside
≥97% (HPLC)

L3625
α-Lactose monohydrate
≥99% total lactose basis (GC)

L8783
α-Lactose monohydrate
≥99% total lactose basis (GC), BioXtra

L2643
α-Lactose monohydrate
suitable for cell culture, BioReagent

SMB00403
α-Man-PEG3-Azide
≥95% (HPLC)

M2925
A3 Glycan
from bovine, ≥90% (HPLC)

A8980
Acarbose
≥95% (HPLC)

A7562
Acetobromo-α-D-galactose
≥93% (TLC)

A1750
Acetobromo-α-D-glucose
≥95% (TLC)

A8292
Acetobromo-α-D-glucuronic acid methyl ester
≥93% (GC)

A3724
Acetyl-β-cyclodextrin
Monoacetyl-β-cyclodextrin

A5502
Adonitol
≥99%

02240
Adonitol
BioXtra, ≥99.0% (HPLC)

21054
Alginic acid calcium salt from brown algae

71238
Alginic acid sodium salt from brown algae
BioReagent, suitable for immobilization of micro-organisms

A2033
Alginic acid sodium salt from brown algae
Medium viscosity

A1112
Alginic acid sodium salt from brown algae
low viscosity

A0451
Aloin
from *Curacao aloe*, ~50%

10050
Amygdalin
BioXtra, ≥97.0% (HPLC)

A6005
Amygdalin
≥99% (HPLC), from apricot kernels

10120
Amylopectin from maize

A8515
Amylopectin from potato starch

12676
Apigenin 7-O-neohesperidoside
≥99.0% (HPLC)

SMB00918
Arabinofuranose
≥95% (HPLC)

A4256
Arbutin
≥98%

A6390
β-D-Allose
rare aldohexose sugar

G6513
β-D-Glucan from barley
≥95% (HPLC)

89862
β-1,3-Glucan from *Euglena gracilis*

C2485
β-Cyclodextrin polymer
powder

G3000
β-Gentiobiose
≥85% (remainder primarily α-anomer)

L3750
β-Lactose
≤30% α-anomer basis, ≥99% total lactose basis

B4894
Benzyl 2-acetamido-2-deoxy-α-D-galactopyranoside hydrate
O-glycosylation inhibitor, ≥97% (TLC)

B9139
Biotin-dextran
mol wt 10,000, Lysine-fixable

72762
Blue Dextran
average mol wt 500,000

03714
Blue Dextran
average mol wt 20,000

C8231
Calcium D-gluconate
98.0-102.0%, meets USP testing specifications (Not intended for use in preparing injectable dosage forms.)

G4625
Calcium D-gluconate monohydrate
≥98% (titration)

21236
Calcium D-saccharate tetrahydrate
98.5-102% (KT)

21190
Calcium lactobionate monohydrate
≥98.0% (KT)

L3375
Calcium lactobionate monohydrate
98.0-102.0% (EDTA titration)

21906
Carboxymethyl-β-cyclodextrin sodium salt

C9481
Carboxymethylcellulose sodium
meets USP testing specifications, Medium viscosity

C5013
Carboxymethylcellulose sodium salt
High viscosity

21902
Carboxymethylcellulose sodium salt
medium viscosity

21904
Carboxymethylcellulose sodium salt
ultra high viscosity, highly purified

C4888
Carboxymethylcellulose sodium salt
Medium viscosity

C5678
Carboxymethylcellulose sodium salt
low viscosity

C1013
Carrageenan

suitable for gel preparation

C8286
Cellotetraose
≥85% (HPLC)

C7170
Chitin from shrimp shells
practical grade, powder

C9752
Chitin from shrimp shells
BioReagent, suitable for analysis of chitinase, purified powder

C3646
Chitosan
from shrimp shells, ≥75% (deacetylated)

SMB00279
Chitosan dimer dihydrochloride
≥85% (HPLC), powder

50494
Chitosan from shrimp shells
low-viscous

C3920
Chondroitin disaccharide Δdi-0S sodium salt
≥95% (HPLC)

C3788
Chondroitin sulfate B sodium salt
from Porcine intestinal mucosa, ≥90%, lyophilized powder

C6737
Chondroitin sulfate sodium salt from bovine cartilage
98-102% (CPC, titration)

C4384
Chondroitin sulfate sodium salt from shark cartilage
sulfated glycosaminoglycan polysaccharide

SMB00919
Cichoriin
≥95% (HPLC)

86524
CM-Dextran sodium salt
BioXtra

A3131
D-(−)-Arabinose
≥98% (GC)

R9629
D-(−)-Ribose
BioReagent, suitable for cell culture

R7500
D-(−)-Ribose
≥99% (GC)

V900389
D-(−)-Ribose
Vetec™, reagent grade, 99%

T2751
D-(−)-Tagatose
≥98.5%

A3381
D-(+)-Arabitol
≥99% (GC)

C7252
D-(+)-Cellobiose
≥98%

G6404
D-(+)-Galactose
BioXtra, ≥99% (HPLC)

G5388
D-(+)-Galactose
powder, anhydrous, BioReagent, suitable for cell culture, suitable for insect cell culture

G0750
D-(+)-Galactose
≥99%

G0625
D-(+)-Galactose
≥98% (HPLC)

15522
D-(+)-Galactose
meets analytical specification of Ph. Eur., BP

49139
D-(+)-Glucose
BioUltra, anhydrous, ≥99.5% (sum of enantiomers, HPLC)

49152
D-(+)-Glucose
tested according to Ph. Eur.

G8270
D-(+)-Glucose
≥99.5% (GC)

G5767
D-(+)-Glucose
ACS reagent

G5146
D-(+)-Glucose
Hybri-Max™, powder, BioReagent, suitable for hybridoma

49152
D-(+)-Glucose
tested according to Ph. Eur.

49139
D-(+)-Glucose
BioUltra, anhydrous, ≥99.5% (sum of enantiomers, HPLC)

RDD016
D-(+)-Glucose
≥99.5% (anhydrous), free-flowing, Redi-Dri™

V900392
D-(+)-Glucose
Vetec™, reagent grade, ≥99.5% (HPLC)

G8769
D-(+)-Glucose solution
45% in H_2O, sterile-filtered, BioXtra, suitable for cell culture

G8644
D-(+)-Glucose solution

100 g/L in H_2O, sterile-filtered, BioXtra, suitable for cell culture

M5895
D-(+)-Maltose monohydrate
≥98% (HPLC), BioReagent, suitable for cell culture, suitable for insect cell culture

M2250
D-(+)-Maltose monohydrate
Type II, ≥95%

M9171
D-(+)-Maltose monohydrate
≥99% (HPLC), BioXtra

M5885
D-(+)-Maltose monohydrate
from potato, ≥99% (HPLC)

63418
D-(+)-Maltose monohydrate
BioUltra, ≥99.0% (HPLC)

V900435
D-(+)-Maltose monohydrate
Vetec™, reagent grade

63579
D-(+)-Mannose
BioUltra, ≥99.5% (sum of enantiomers, HPLC)

M6020
D-(+)-Mannose
powder, BioReagent, suitable for cell culture

M2069
D-(+)-Mannose
≥99% (GC), wood

M8574
D-(+)-Mannose
synthetic, ≥99% (GC)

R7630
D-(+)-Raffinose pentahydrate
powder, BioReagent, suitable for cell culture

R0250

D-(+)-Raffinose pentahydrate
≥98.0% (HPLC)

R0514
D-(+)-Raffinose pentahydrate
≥99% (HPLC), BioXtra

86265
D-(+)-Talose
≥99.0% (HPLC)

T9449
D-(+)-Trehalose dihydrate
≥99% (HPLC), from starch

T0167
D-(+)-Trehalose dihydrate
from *Saccharomyces cerevisiae*, powder, BioReagent, suitable for cell culture, suitable for insect cell culture, ≥99%

T9531
D-(+)-Trehalose dihydrate
≥99% (HPLC), from *Saccharomyces cerevisiae*

T5251
D-(+)-Trehalose dihydrate
≥98.5% (HPLC), from *Saccharomyces cerevisiae*

T2754
D-(+)-Turanose
≥98%

63963
D-Altrose
≥97.0% (HPLC)

79469
D-Arabino-1,4-lactone
≥97.0% (HPLC)

A2013
D-Arabinose 5-phosphate disodium salt
≥95% (HPLC)

08897
D-Erythritol 4-phosphate lithium salt
≥95.0% (TLC)

75025
D-Erythronic acid potassium salt
≥97.0% (GC)

E0377
D-Erythrose 4-phosphate sodium salt

F0752
D-Fructose 1,6-bisphosphate tetra(cyclohexylammonium) salt
≥95% anhydrous basis (enzymatic)

F6803
D-Fructose 1,6-bisphosphate trisodium salt hydrate
≥98% (TLC)

F1502
D-Fructose 6-phosphate dipotassium salt
≥97% (enzymatic), amorphous powder

48230
D-Galacto-D-mannan from *Ceratonia siliqua*
~95% (HPLC)

G9005
D-Gluconic acid sodium salt
≥99%

G5509
D-Glucosamine 6-phosphate
≥98% (TLC)

G4878
D-Glucosamine 6-phosphate sodium salt
≥98% (TLC)

G0259
D-Glucosaminic acid
≥98% (TLC)

G7375
D-Glucose 6-phosphate dipotassium salt hydrate
Sigma Grade, 98-100% dry basis (enzymatic)

G7250
D-Glucose 6-phosphate disodium salt hydrate
≥98% (HPLC)

G6526
D-Glucose 6-phosphate potassium salt
≥95% anhydrous basis (enzymatic)

G7879
D-Glucose 6-phosphate sodium salt
≥98% (HPLC)

G7772
D-Glucose 6-phosphate solution
~1 M in H_2O (approx. 260 mg per ml)

G5269
D-Glucuronic acid
≥98% (GC)

G8645
D-Glucuronic acid sodium salt monohydrate
97.5-102.5% (non-aqueous titration)

39705
D-Glyceraldehyde 3-phosphate solution
8-13 mg/mL in H_2O

61786
D-Glyceric acid sodium salt
≥95.0% (TLC)

L3520
D-Lactitol monohydrate
≥99% (HPLC)

61339
D-Lactose monohydrate
BioUltra, ≥99.5% (HPLC)

61345
D-Lactose monohydrate
≥98.0% (HPLC)

61341
D-Lactose monohydrate
tested according to Ph. Eur.

L254

D-Lactose monohydrate
ACS reagent

V900080
D-Lactose monohydrate
Vetec™, reagent grade

M4125
D-Mannitol
≥98% (GC)

M8429
D-Mannitol
meets EP, FCC, USP testing specifications

M9546
D-Mannitol
BioXtra, ≥98% (HPLC)

M9647
D-Mannitol
ACS reagent

63559
D-Mannitol
BioUltra, ≥99.0% (sum of enantiomers, HPLC)

M1902
D-Mannitol
≥98% (GC), suitable for plant cell culture

92416
D-Mannitol 1-phosphate lithium salt
≥95% (TLC)

97318
D-Mannoheptulose
≥99.0% (HPLC)

M4670
D-Mannosamine hydrochloride
≥98% (HPLC)

M6876
D-Mannose 6-phosphate disodium salt hydrate
≥97.0% dry basis (enzymatic)

M3655
D-Mannose 6-phosphate sodium salt
≥98% (HPLC)

59937
D-*myo*-Inositol 1-monophosphate dipotassium salt
≥96% (HPLC)

I9766
D-*myo*-Inositol 1,4,5-tris-phosphate trisodium salt
≥95% (by 1H NMR and TLC)

P8043
D-Psicose
≥95% (HPLC)

83875
D-Ribose 5-phosphate disodium salt dihydrate
≥99% (TLC)

R0878
D-Ribulose 1,5-bisphosphate sodium salt hydrate
≥90% (TLC)

83895
D-Ribulose 1,5-bisphosphate sodium salt hydrate
≥99.0% (TLC)

83899
D-Ribulose 5-phosphate disodium salt
≥96% (TLC)

R9875
D-Ribulose 5-phosphate sodium salt
≥90% (HPLC)

76512
D-Ribulose solution
~1 M in H_2O, ≥97.0% (HPLC)

S0375
D-Saccharic acid 1,4-lactone monohydrate
≥98.0% (HPLC)

S4140
D-Saccharic acid potassium salt
≥98% (GC)

07532
D-Sedoheptulose
≥95% (TLC)

78832
D-Sedoheptulose 7-phosphate lithium salt
≥90% (TLC)

85529
D-Sorbitol
BioUltra, ≥99.0% (HPLC)

S3889
D-Sorbitol
≥98% (GC), BioReagent, suitable for cell culture, suitable for plant cell culture

S7547
D-Sorbitol
≥98% (GC), BioXtra

S1876
D-Sorbitol
≥98% (GC)

V900390
D-Sorbitol
Vetec™, reagent grade, 97%

240850
D-Sorbitol
99% (GC)

97336
D-Sorbitol
liquid, tested according to Ph. Eur.

S6021
D-Sorbitol
≥98% (GC), for molecular biology

73671
D-Xylonic acid lithium salt
≥95.0% (TLC)

X4625
D-Xylulose

≥95% (HPLC), syrup

15732
D-Xylulose 5-phosphate lithium salt
≥90% (TLC)

P8877
D-(−)-3-Phosphoglyceric acid disodium salt
≥93% dry basis (enzymatic), powder

E7625
D-(−)-Erythrose
≥75% (TLC), syrup

F2543
D-(−)-Fructose
≥99% (HPLC), BioXtra

F0127
D-(−)-Fructose
≥99% (HPLC)

F3510
D-(−)-Fructose
≥99% (HPLC), BioReagent, suitable for cell culture, suitable for insect cell culture

47739
D-(−)-Fructose
BioUltra, ≥99.0% (HPLC)

47748
D-(−)-Fructose
tested according to Ph. Eur.

F9048
D-(−)-Fructose
98.0-102.0% dry basis, meets USP testing specifications

F8150
D-(+)-Fucose
≥98%

G0500
D-(+)-Galactosamine hydrochloride
≥99% (HPLC)

48280
D-(+)-Galacturonic acid monohydrate
≥97.0%

G4750
D-(+)-Gluconic acid δ-lactone
≥99.0% (GC)

G1514
D-(+)-Glucosamine hydrochloride
≥99%, BioReagent, suitable for cell culture

G4875
D-(+)-Glucosamine hydrochloride
≥99%, crystalline

16301
D-(+)-Glucose monohydrate
meets analytical specification of Ph. Eur., BP, Ph Franç., 97.5-102.0% anhydrous basis(HPLC)

49161
D-(+)-Glucose monohydrate
tested according to Ph. Eur.

M5375
D-(+)-Melezitose hydrate
≥97% (HPLC)

S4887
D-(+)-Sorbose
≥99%

95729
D-(+)-Xylose
BioUltra, ≥99.0% (sum of enantiomers, HPLC)

X1500
D-(+)-Xylose
≥99% (GC)

X3877
D-(+)-Xylose
BioXtra, ≥99% (GC)

SMB00280
D-Mannuronic acid sodium
≥90% (HPLC)

79470
D(+)-2-Phosphoglyceric acid sodium salt hydrate
≥75% (calc. on dry substance, enzymatic)

D9885
DEAE-Dextran hydrochloride
powder

30461
DEAE-Dextran hydrochloride
BioReagent, for molecular biology

D5394
Decyl β-D-glucopyranoside
≥98% (GC)

31394
Dextran
enzymatic synth.

D9260
Dextran from *Leuconostoc mesenteroides*
average mol wt 9,000-11,000

D4626
Dextran from *Leuconostoc mesenteroides*
average mol wt 15,000-30,000

D4876
Dextran from *Leuconostoc mesenteroides*
average mol wt 150,000

D3759
Dextran from *Leuconostoc mesenteroides*
average mol wt 48,000-90,000

31398
Dextran from *Leuconostoc mesenteroides*
M_r ~200,000

31397
Dextran from *Leuconostoc mesenteroides*
M_r ~60,000

D5376
Dextran from *Leuconostoc mesenteroides*

average mol wt 1,500,000-2,800,000

D1662
Dextran from *Leuconostoc mesenteroides*
average mol wt 35,000-45,000

D8821
Dextran from *Leuconostoc mesenteroides*
average mol wt 60,000-76,000

31390
Dextran from *Leuconostoc* spp.
M_r ~70,000

31388
Dextran from *Leuconostoc* spp.
M_r ~6,000

31389
Dextran from *Leuconostoc* spp.
M_r ~40,000

31392
Dextran from *Leuconostoc* spp.
M_r 450,000-650,000

09184
Dextran from *Leuconostoc* spp.
M_r ~100,000

31387
Dextran from *Leuconostoc* spp.
M_r 15,000-25,000

67578
Dextran sulfate sodium salt

75027
Dextran sulfate sodium salt

51227
Dextran sulfate sodium salt
M_w 7,000-20,000

42867

Dextran sulfate sodium salt
M_r ~40,000

52423
Dextran sulfate sodium salt from *Leuconostoc* spp.
low sulfate content, M_r ~40,000

31395
Dextran sulfate sodium salt from *Leuconostoc* spp.
M_r ~500,000

D6001
Dextran sulfate sodium salt from *Leuconostoc* spp.
average mol wt >500,000 (dextran starting material), contains 0.5-2.0% phosphate buffer, pH 6-8

D4911
Dextran sulfate sodium salt from *Leuconostoc* spp.
mol wt 6,500-10,000

D8787
Dextran sulfate sodium salt from *Leuconostoc* spp.
avg mol wt >500,000 (dextran starting material)

D6924
Dextran sulfate sodium salt from *Leuconostoc* spp.
average mol wt 9,000-20,000

31395
Dextran sulfate sodium salt from *Leuconostoc* spp.
M_r ~500,000

52423
Dextran sulfate sodium salt from *Leuconostoc* spp.
low sulfate content, M_r ~40,000

D9434
Dextrose
97.5-102.0% anhydrous basis, meets EP, BP, JP, USP testing specifications

D9559
Dextrose monohydrate
meets USP testing specifications, 97.5-102.0% anhydrous basis

07743
Dhurrin
≥95% (HPLC)

D4288
Digalacturonic acid
≥85% (HPLC)

D7137
Dihydroxyacetone phosphate dilithium salt
≥93% dry basis (enzymatic)

D2773
Dithranol
≥90% (HPLC)

A9524
DL-Arabinose
≥98%

G5376
DL-Glyceraldehyde 3-phosphate diethyl acetal barium salt

G5251
DL-Glyceraldehyde 3-phosphate solution
45-55 mg/mL in H_2O

G7274
DL-Glyceric acid hemicalcium salt hydrate
≥98% (GC)

D0256
Dulcitol
≥99% (GC)

E1895
Erlose
≥94% (HPLC)

E1378
Escin
≥95%, powder

46070
Ethyl cellulose
48.0-49.5% (w/w) ethoxyl basis

46080
Ethyl cellulose
48.0-49.5% (w/w) ethoxyl basis

F9378
Ficoll® 400
Type 400-DL, lyophilized powder

F1418
Ficoll® 400
BioXtra, Type 400-DL, lyophilized powder

F4375
Ficoll® PM 400
Type 400

F2878
Ficoll® PM 70
Type 70

74817
FITC-CM-Dextran
average mol wt 150,000

53471
FITC-CM-Dextran
average mol wt 70,000

53379
FITC-CM-Dextran
average mol wt 40,000

68059
FITC-CM-Dextran
average mol wt 4,000

01649
FITC–DEAE–Dextran
average mol wt 40,000

78331
FITC-Dextran sulfate sodium salt
average mol wt 40,000

F1177
Fluorescein hyaluronic acid
>95%, powder

F8052
Fructooligosaccharides from chicory
≥90% (as FOS and inulin)

F8190
Fucoidan from *Fucus vesiculosus*
≥95%

F5631
Fucoidan from *Fucus vesiculosus*
Crude

F8065
Fucoidan from *Macrocystis pyrifera*
≥85%

F8315
Fucoidan from *Undaria pinnatifida*
≥95%

F0537
Fusicoccin from *Fusicoccum amygdali*
≥85% (HPLC)

G0777
Ginsenoside-Rb_1 from *Panax ginseng* (Korean ginseng) root
≥98% (HPLC), triterpenoid saponin

G5011
Glucan from baker's yeast (*S. cerevisiae*)
≥98.00%

G2164
Gluconolactone
99.0-101.0%, meets USP testing specifications

49163
Glucose solution
BioUltra, for molecular biology, ~20% in H_2O

78544
Glucose tetrasaccharide
≥99.0% (TLC)

SMB00285
Glucose-Udp-Fluorescein Conjugate
≥95% (HPLC)

G5882
Glutaraldehyde solution
Grade I, 25% in H_2O, specially purified for use as an electron microscopy fixative

G6257
Glutaraldehyde solution
Grade II, 25% in H_2O

G7526
Glutaraldehyde solution
Grade I, 8% in H_2O, specially purified for use as an electron microscopy fixative or other sophisticated use

G7651
Glutaraldehyde solution
Grade I, 50% in H_2O, specially purified for use as an electron microscopy fixative or other sophisticated use

G6403
Glutaraldehyde solution
50% in H_2O, suitable for photographic applications

G7776
Glutaraldehyde solution
Grade I, 70% in H_2O, specially purified for use as an electron microscopy fixative or other sophisticated use

49629
Glutaraldehyde solution
technical, ~50% in H_2O (5.6 M)

340855
Glutaraldehyde solution
50 wt. % in H_2O

G6626
Glycerol phosphate calcium salt
>98% (TLC)

G1296
Glycitin

G0885
Glycogen from bovine liver
≥85% dry basis (enzymatic)

G1767
Glycogen from mussel, Mytilus genus
for DNA precipitations

G1508
Glycogen from mussel, Mytilus genus
≥85% anhydrous basis (enzymatic)

G8751
Glycogen from oyster
≥75% dry basis

G8876
Glycogen from rabbit liver
≥85% dry basis (enzymatic)

G4129
Guar

30888
Gum arabic from acacia tree
spray dried, tested according to Ph. Eur.

V900768
Gum arabic from acacia tree
Vetec™, reagent grade

51198
Gum arabic from acacia tree
spray dried

G9752
Gum arabic from acacia tree
branched polysaccharide

G0878
Gum mastic

H6279
Heparin ammonium salt from porcine intestinal mucosa
≥140 USP units/mg

H8892
Heparin disaccharide I-H sodium salt

H0895
Heparin disaccharide IV-A sodium salt

H0878
Heparin lithium salt from porcine intestinal mucosa
≥150 USP units/mg

SRE0027
Heparin sodium porcine mucosa

2106
Heparin sodium salt from porcine intestinal mucosa
endotoxin, free

H3149
Heparin sodium salt from porcine intestinal mucosa
Grade I-A, ≥180 USP units/mg, powder, BioReagent, suitable for cell culture

H5515
Heparin sodium salt from porcine intestinal mucosa
≥150 IU/mg (dry basis)

H3393
Heparin sodium salt from porcine intestinal mucosa
Grade I-A, ≥180 USP units/mg

B9806
Heparin−biotin sodium salt
≥97%

H5254
Hesperidin
≥80% (HPLC)

B1557
Hyaluronan biotin sodium salt
≥97%, soluble powder

H9649
Hyaluronic acid disaccharide ΔDiHA sodium salt
≥85% (HPLC)

H7630
Hyaluronic acid sodium salt from bovine vitreous humor

H5388
Hyaluronic acid sodium salt from rooster comb
avian glycosaminoglycan polysaccharide

53747
Hyaluronic acid sodium salt from *Streptococcus equi*
bacterial glycosaminoglycan polysaccharide

08185
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 50,000-70,000

97616
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 15,000-30,000

40583
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 8,000-15,000

41897
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 1,000,000-1,250,000

42686
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 30,000-50,000

51967
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 2,000,000-2,200,000

63357
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 1,500,000-1,750,000

73641
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 2,000,000-2,400,000

00941
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 300,000-500,000

94137
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 10,000-30,000

06742
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 120,000-350,000

49775
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 1,200

96144
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 70,000-120,000

75046
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 90,000-110,000

75043
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 130,000-150,000

80486
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 1,250,000-1,500,000

75574
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 500,000-750,000

75044
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 150,000-300,000

53163
Hyaluronic acid sodium salt from *Streptococcus equi*
mol wt 750,000-1,000,000

53747
Hyaluronic acid sodium salt from *Streptococcus equi*
bacterial glycosaminoglycan polysaccharide

H9390
Hyaluronic acid sodium salt from *Streptococcus zooepidemicus*

bacterial glycosaminoglycan polysaccharide

54290
Hydroxyethyl-cellulose
viscosity 90-160 cP, 5 % in H_2O(25 °C)

09368
Hydroxyethyl-cellulose

H3785
Hypromellose
meets USP testing specifications

19050
Idaein chloride
≥90% (HPLC)

I3750
Indoxyl β-D-glucoside
≥97%

I2255
Inulin from chicory

I3754
Inulin from dahlia tubers

F3272
Inulin–FITC
from dahlia tuber

I6758
IPTG
≥99% (TLC), ≤0.1% Dioxane

D8517
Iron–Dextran
95-105 mg/mL (Iron content), solution

I7253
Isomaltose
~98% (TLC)

I1536
Isoorientin
≥98% (HPLC)

I5502
Isopropyl β-D-1-thiogalactopyranoside
≥99% (TLC)

17804
Isovitexin
≥98.0% (HPLC)

22048
κ-Carrageenan
sulfated plant polysaccharide

90242
Kaempferol 3-*O*-β -rutinoside
≥98.0% (HPLC)

G0503
Karaya gum

60714
Ketodeoxynonulosonic acid
≥99.0% (TLC)

K4769
Kojibiose
≥98% (HPLC)

A3506
L-(−)-Arabitol
≥98%

D9760
L-(−)-Dithiothreitol
≥95% (titration)

G7134
L-(−)-Galactose
≥99%

G5500
L-(−)-Glucose
≥99%

M1134
L-(−)-Mannose
≥99% (GC)

10839
L-(+)-Arabinose
BioUltra, ≥99.5% (sum of enantiomers, HPLC)

E003256
L-(+)-Arabinose
≥99% (GC)

A3256
L-(+)-Arabinose
≥99% (GC)

56845
L-(+)-Erythrulose
≥85% (HPLC)

R4377
L-(+)-Ribose
≥98% (GC)

19710
L-2-Phosphoglyceric acid disodium salt hydrate
≥80% (CE)

05313
L-Galactono-1,4-lactone
≥95.0% (GC)

69312
L-Glyceraldehyde-3-phosphate solution
≥95% (TLC), 8-12 mg/mL in H_2O (qNMR)

51738
L-Glyceric acid sodium salt
≥95.0% (TLC)

I6035
L-Iditol
≥98% (GC)

R3875
L-Rhamnose monohydrate
≥99%

75436

L-Ribulose
≥90% (HPLC)

09154
L-Xylonic acid lithium salt
≥95.0% (TLC)

F2252
L-(−)-Fucose
≥98% (GC)

50032
L-(−)-Glyceric acid hemicalcium salt monohydrate
≥97.0% (KT)

85541
L-(−)-Sorbose
for biotechnological purposes, ≥98.0% (sum of enantiomers, HPLC)

153516
Lactobionic acid
97% (TLC)

L2398
Lactobionic acid
≥97% (TLC), cell impermeant agent

17814
Lactose
tested according to Ph. Eur.

61360
Lactulose
≥98.0% (HPLC)

L7877
Lactulose
≥95% (HPLC)

L9634
Laminarin from *Laminaria digitata*
polysaccharide substrate for laminarinase

L2261
Lanatoside C
≥97% (TLC)

L8647
Levan from *Erwinia herbicola*
≥98% (TLC)

SMB00610
Lipopolysaccharide from Porphyromonas gingivalis
purified by phenol extraction

L9641
Lipopolysaccharides (rough strains) from *Escherichia coli* EH100 (Ra mutant)

L6893
Lipopolysaccharides (rough strains) from *Escherichia coli* F583 (Rd mutant)

L5014
Lipopolysaccharides (rough strains) from *Escherichia coli* J5 (Rc mutant)

L9764
Lipopolysaccharides (rough strains) from *Salmonella enterica* serotype minnesota Re 595 (Re mutant)

SBR00027
Lipopolysaccharides from *Akkermansia muciniphila*
Purified by phenol extraction

L2018
Lipopolysaccharides from *Escherichia coli* K-235
purified by gel-filtration chromatography

L2143
Lipopolysaccharides from *Escherichia coli* K-235
purified by phenol extraction

F3665
Lipopolysaccharides from *Escherichia coli* O111:B4
FITC conjugate

L3024
Lipopolysaccharides from *Escherichia coli* O111:B4
purified by ion-exchange chromatography, TLR ligand tested

L4130
Lipopolysaccharides from *Escherichia coli* O111:B4
purified by trichloroacetic acid extraction

L3012
Lipopolysaccharides from *Escherichia coli* O111:B4

purified by gel-filtration chromatography

L3023
Lipopolysaccharides from *Escherichia coli* O111:B4
Detoxified

L2630
Lipopolysaccharides from *Escherichia coli* O111:B4
purified by phenol extraction

F3665
Lipopolysaccharides from *Escherichia coli* O111:B4
FITC conjugate

L5293
Lipopolysaccharides from *Escherichia coli* O111:B4
Ready Made solution, 1 mg/mL

L3137
Lipopolysaccharides from *Escherichia coli* O127:B8
purified by gel-filtration chromatography

L5024
Lipopolysaccharides from *Escherichia coli* O127:B8
purified by ion-exchange chromatography, TLR ligand tested

L4516
Lipopolysaccharides from *Escherichia coli* O127:B8
suitable for cell culture, BioXtra, γ-irradiated

L3129
Lipopolysaccharides from *Escherichia coli* O127:B8
purified by phenol extraction

L5668
Lipopolysaccharides from *Escherichia coli* O127:B8
Ready Made solution, 1 mg/mL

L2887
Lipopolysaccharides from *Escherichia coli* O128:B12
purified by gel-filtration chromatography

L2755
Lipopolysaccharides from *Escherichia coli* O128:B12
purified by phenol extraction

L2654
Lipopolysaccharides from *Escherichia coli* O26:B6
γ-irradiated, BioXtra, suitable for cell culture

L8274
Lipopolysaccharides from *Escherichia coli* O26:B6
≥10,000 EU/mg, purified by phenol extraction

L3755
Lipopolysaccharides from *Escherichia coli* O26:B6
purified by trichloroacetic acid extraction

L2762
Lipopolysaccharides from *Escherichia coli* O26:B6
purified by gel-filtration chromatography

L5543
Lipopolysaccharides from *Escherichia coli* O26:B6
Ready Made solution, 1 mg/mL, 0.2 µm filtered

F8666
Lipopolysaccharides from *Escherichia coli* O55:B5
FITC conjugate

L2880
Lipopolysaccharides from *Escherichia coli* O55:B5
purified by phenol extraction

L2880
Lipopolysaccharides from *Escherichia coli* O55:B5
purified by phenol extraction

L2637
Lipopolysaccharides from *Escherichia coli* O55:B5
purified by gel-filtration chromatography

L4005
Lipopolysaccharides from *Escherichia coli* O55:B5
purified by trichloroacetic acid extraction

F8666
Lipopolysaccharides from *Escherichia coli* O55:B5
FITC conjugate

L5418
Lipopolysaccharides from *Escherichia coli* O55:B5
Ready Made solution, 1 mg/mL

L4268
Lipopolysaccharides from *Klebsiella pneumoniae*
purified by phenol extraction

SMB00704
Lipopolysaccharides from *Proteus mirabilis*
purified by phenol extraction

SMB00801
Lipopolysaccharides from *Proteus vulgaris*
purified by phenol extraction

L8643
Lipopolysaccharides from *Pseudomonas aeruginosa* 10
purified by gel-filtration chromatography

L7018
Lipopolysaccharides from *Pseudomonas aeruginosa* 10
purified by trichloroacetic acid extraction

L9143
Lipopolysaccharides from *Pseudomonas aeruginosa* 10
purified by phenol extraction

L5886
Lipopolysaccharides from *Salmonella enterica* serotype abortus equi
purified by phenol extraction

L4774
Lipopolysaccharides from *Salmonella enterica* serotype enteritidis
purified by ion-exchange chromatography

L2012
Lipopolysaccharides from *Salmonella enterica* serotype enteritidis
purified by gel-filtration chromatography

L6011
Lipopolysaccharides from *Salmonella enterica* serotype enteritidis
purified by phenol extraction

L7770
Lipopolysaccharides from *Salmonella enterica* serotype enteritidis
γ-irradiated, BioXtra, suitable for cell culture

L6261
Lipopolysaccharides from *Salmonella enterica* serotype minnesota

purified by phenol extraction

L2137
Lipopolysaccharides from *Salmonella enterica* serotype minnesota
purified by gel-filtration chromatography

L6511
Lipopolysaccharides from *Salmonella enterica* serotype typhimurium
purified by phenol extraction

L2262
Lipopolysaccharides from *Salmonella enterica* serotype typhimurium
purified by gel-filtration chromatography

L7261
Lipopolysaccharides from *Salmonella enterica* serotype typhimurium
purified by trichloroacetic acid extraction

L6143
Lipopolysaccharides from *Salmonella enterica* serotype typhimurium
suitable for cell culture, BioXtra, γ-irradiated

L6386
Lipopolysaccharides from *Salmonella typhosa*
purified by phenol extraction

L2387
Lipopolysaccharides from *Salmonella typhosa*
purified by gel-filtration chromatography

L7895
Lipopolysaccharides from *Salmonella typhosa*
γ-irradiated, BioXtra, suitable for cell culture

L6136
Lipopolysaccharides from *Serratia marcescens*
purified by phenol extraction

L2250
Lithium L-lactate
≥98% (titration)

G0753
Locust bean gum from *Ceratonia siliqua* seeds

M7554
Magnesium D-gluconate hydrate

98.0-102% anhydrous basis, meets USP testing specifications

G9130
Magnesium D-gluconate hydrate
≥98% (HPLC)

M8892
Maltitol
≥98% (HPLC)

M7753
Maltoheptaose
≥60% (HPLC)

M9153
Maltohexaose
≥65% (HPLC)

SMB01321
Maltopentaose
95% (HPLC)

63423
Maltose solution
BioReagent, for molecular biology, ~20% in H_2O

SMB01322
Maltotetraose
94% (HPLC)

M8378
Maltotriose
≥90% (HPLC)

M8449
MAN-5 Glycan
≥90% (HPLC)

M7504
Mannan from *Saccharomyces cerevisiae*
prepared by alkaline extraction

M8819
Mannide monooleate
from plant

M9179

Meglumine
99.0-100.5% dry basis, meets USP testing specifications

M5266
Meglumine diatrizoate
organic

M5500
Melibiose
≥98% (HPLC)

E7500
***meso*-Erythritol**
≥99% (GC)

M1379
Methyl α-D-galactopyranoside

M9376
Methyl α-D-glucopyranoside
≥99% (GC)

M6882
Methyl α-D-mannopyranoside
≥99.0% (HPLC)

M0779
Methyl β-D-glucopyranoside
≥99% (HPLC and GC)

M1156
Methyl β-D-glucuronide sodium salt
≥98% (TLC, anhydrous)

M5878
Methyl β-D-xylopyranoside
≥99% (GC)

M6385
Methyl cellulose
viscosity: 25 cP

M0387
Methyl cellulose
viscosity: 1,500 cP

M0262
Methyl cellulose
27.5-31.5% (Methoxyl content), viscosity: 400 cP

M0512
Methyl cellulose
viscosity: 4,000 cP

M7140
Methyl cellulose
viscosity: 15 cP

M0555
Methyl cellulose
26.0-33.0% (Methoxy group (dry basis)), meets USP testing specifications, viscosity: 1,500 cP

M0430
Methyl cellulose
26.0-33.0% (methoxyl group, on Dry Basis), meets USP testing specifications, viscosity: 400 cP

M0285
Methyl-β-D-galactopyranoside

M7439
Methyl-β-cyclodextrin

332615
Methyl-β-cyclodextrin
average M_n 1310

779873
Methyl-β-cyclodextrin
Produced by Wacker Chemie AG, Burghausen, Germany, Life Science, ≥98.0% cyclodextrin basis

V900492
***myo*-Inositol**
Vetec™, reagent grade, 99%

91255
Myricitrin
≥99.0% (HPLC)

A2795
N-Acetyl-D-galactosamine
~98%

92689

***N*-Acetyl-D-galactosamine-6-phosphate**
≥97.0% (HPLC)

A8625
***N*-Acetyl-D-glucosamine**
≥99% (HPLC)

A3286
***N*-Acetyl-D-glucosamine**
suitable for cell culture, BioReagent

A4106
***N*-Acetyl-D-glucosamine**
≥95% (HPLC)

A4394
N-Acetyl-D-glucosamine 6-phosphate sodium salt
≥98% (TLC)

44001
***N*-Acetyl-D-glucosamine 6-sulfate sodium salt**
≥98.0% (TLC)

A7791
N-Acetyl-D-lactosamine
≥98%

A8176
N-Acetyl-D-mannosamine
≥98% (TLC)

D9050
N-Acetyl-2,3-dehydro-2-deoxyneuraminic acid
≥93% (TLC)

A2142
N-Acetyl-α-D-glucosamine 1-phosphate disodium salt
≥95% (TLC)

A3007
***N*-Acetylmuramic acid**
≥98%

A2388
N-Acetylneuraminic acid
≥98% (HPLC), from *Escherichia coli*

A0812
N-Acetylneuraminic acid
≥95% anhydrous basis, synthetic

G9793
N-Glycolylneuraminic acid
≥95% (HPLC), semisynthetic

H3264
***n*-Heptyl β-D-thioglucopyranoside**
≥99% (GC)

O3129
***N*-Octanoyl-*N*-methylglucamine**
≥97% (GC)

D1523
N,N′-Diacetylchitobiose
≥96% (HPLC)

T2144
N,N′,N″-Triacetylchitotriose
≥93% (HPLC)

N4540
NA2F Glycan
from Porcine, ≥90% (HPLC)

71162
Naringin
≥95% (HPLC)

N1376
Naringin
≥90% (HPLC), from citrus fruit

N1887
Neohesperidin
≥90% (HPLC)

N8757
Neohesperidin dihydrochalcone
≥95% (HPLC)

SMB00907
Nicotinamide riboside chloride
≥97% (HPLC), powder

08602
Nigerose
≥90.0% (HPLC)

A4438
***p*-Acetamidophenyl β-D-glucuronide sodium salt**
>98% (TLC)

P0038
Paeoniflorin
≥98% (HPLC)

P2007
Palatinose hydrate
≥99% (GC)

93854
Pectin from apple

P9135
Pectin from citrus peel
Galacturonic acid ≥74.0 % (dried basis)

SMB00288
Peptidoglycan from *Bacillus subtilis*
≤1.00 EU/mg Endotoxin

P8810
Phytic acid sodium salt hydrate
from rice

68388
Phytic acid sodium salt hydrate
≥90% phosphorus (P) basis (dry basis)

P3889
Polygalacturonic acid
≥85% (titration), from oranges

81325
Polygalacturonic acid
≥90% (enzymatic)

P3850
Polygalacturonic acid sodium salt

from citrus fruit, ≥75% (titration)

P7798
Polysucrose 400
powder

V900518
Polysucrose 400
Vetec™, reagent grade

G4500
Potassium D-gluconate
≥99% (HPLC)

P1847
Potassium gluconate
97.0-103.0% dry basis, meets USP testing specifications

SMB00912
Pseudouridine
≥98% (HPLC)

P4516
Pullulan
suitable for substrate for pullulanase

01432
Rebaudioside A
≥96% (HPLC)

41458
Rebaudioside E
≥90.0% (HPLC)

74632
Rebaudioside M
≥95.0% (HPLC)

41883
Rebaudioside N
≥95.0% (HPLC)

M5019
Remazol Brilliant Blue R−D-Xylan

04677
Rutinose

≥98.0% (HPLC)

G7886
***sn*-Glycerol 3-phosphate bis(cyclohexylammonium) salt**
≥93% (GC)

71859
Sodium (meta)periodate
BioUltra, ≥99.5% (RT)

S2054
Sodium gluconate
meets USP testing specifications

90374
Sodium mercaptopyruvate dihydrate
97.0-103.0% (NT)

71945
Sodium salicylate
≥99.5% (HPLC), puriss. p.a.

71943
Sodium salicylate
tested according to Ph. Eur.

S2679
Sodium salicylate
98.0-102.0% anhydrous basis, meets USP testing specifications

S3007
Sodium salicylate
ReagentPlus®, ≥99.5% (titration)

T0632
Sodium thioglycolate
≥96.5% (iodometric)

S1404
Sophorose
≥98% (HPLC, anhydrous)

309532
Sorbitol F solution
70 wt. % in H_2O, Contains mainly D-sorbitol with lesser amounts of other hydrogenated oligosaccharides

S4001

Stachyose hydrate
≥98% (HPLC)

S4180
Starch from corn
practical grade

S9679
Starch from corn
Unmodified waxy corn starch of essentially pure amylopectin; contains only trace amounts of amylose.

S4126
Starch from corn

S4251
Starch from potato
Powder

S2004
Starch from potato
Soluble

S7260
Starch from rice

S5127
Starch from wheat
Unmodified

V900508
Starch, soluble
Vetec™, reagent grade

85990
Succinyl-β-cyclodextrin

69293
Sucralose
≥98.0% (HPLC)

S3929
Sucrose
meets USP testing specifications

S8501
Sucrose

≥99.5% (GC)

S0389
Sucrose
for molecular biology, ≥99.5% (GC)

S1888
Sucrose
≥99.5% (GC), BioReagent, suitable for cell culture, suitable for insect cell culture

S7903
Sucrose
≥99.5% (GC), BioXtra

S5391
Sucrose
≥99.5% (GC), Grade II, suitable for plant cell culture

S5390
Sucrose
≥99% (GC), Grade I, suitable for plant cell culture

S9378
Sucrose
≥99.5% (GC)

16104
Sucrose
puriss., meets analytical specification of Ph. Eur., BP, NF

84097
Sucrose
BioUltra, for molecular biology, ≥99.5% (HPLC)

S5016
Sucrose
ACS reagent

RDD023
Sucrose
anhydrous, free-flowing, Redi-Dri™, ACS reagent

V900116
Sucrose
99% (GC), Vetec™, reagent grade

S3387

Sucrose 6′-monophosphate dipotassium salt
~98% (TLC)

S0652
Sucrose octasulfate–aluminum complex

S2671
Suramin sodium salt
≥98% (TLC)

T3396
Tetraglycol
BioXtra

T1162
Tetramethylrhodamine isothiocyanate–Dextran
average mol wt 65,000-85,000

T1037
Tetramethylrhodamine isothiocyanate–Dextran
average mol wt 4,400

T1287
Tetramethylrhodamine isothiocyanate–Dextran
average mol wt 155,000

42874
Tetramethylrhodamine isothiocyanate–Dextran
average mol wt 40,000

52194
Tetramethylrhodamine isothiocyanate–Dextran
average mol wt 500,000

G1128
Tragacanth

SMB00948
***trans*-Resveratrol 3-*O*-β-D-glucuronide**
≥95% (HPLC)

T4272
Trehalose 6-phosphate dipotassium salt
~95% (TLC)

T7407

Trigalacturonic acid
≥90% (HPLC)

93802
Tylose® MH 1000
viscosity 600-1500 mPa.s, 2 % in H_2O(20 °C)

93800
Tylose® MH 300
viscosity 150-450 mPa.s, 2 % in H_2O(20 °C)

SMB00904
Uridine 5′-diphosphoxylose sodium salt

50359
Voglibose
≥97.0% (TLC)

W0125
Wheat germ Untreated
suitable for enzyme extraction

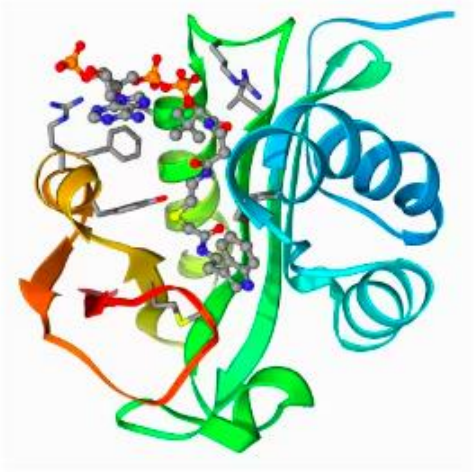
43708
Xanthan from *Xanthomonas campestris*

G1253
Xanthan gum from *Xanthomonas campestris*

X3375
Xylitol
≥99% (GC)

SMB00282
Xylobiose
≥90% (HPLC)

Coenzymes



Most biochemical reactions in the body are regulated by enzymes. **Coenzymes** are organic compounds that facilitate the action of enzymes and can bind temporarily or permanently to an enzyme. Coenzymes can catalyze reactions, but not as effectively as when in conjunction with an enzyme.

Coenzymes, which are tightly bound or covalently attached to enzymes, are often referred to as prosthetic groups. Coenzymes, which are more loosely associated with enzymes, can be described as co-substrates. They can serve various functions, including:

- Assist in intracellular energy-coupling reactions.
- Act as carriers of hydrogen atoms, electrons, or chemical groups (e.g. NADH acts as an electron carrier).
- Facilitate reactions by associating with enzyme substrates at enzyme active sites.

Coenzymes can be vitamin-derived, such as from B-vitamins and vitamin C. For example, coenzyme A (CoA), an acyl group carrier that is key to metabolism, derives from pantothenic acid. Vitamin C itself is a cofactor for hydroxylases. With the exception of vitamin C, vitamins must be modified in order to serve as coenzymes. Metabolite coenzymes, such as adenosine triphosphate (ATP), are made from nucleotides.

Our high-quality coenzymes accommodate the rigorous demands of your nutrition/food science applications, metabolism research, microbiome research, and disease research. For more specific requirements, we support you with the convenience of customized products and packaging.

R7649
(−)-Riboflavin
meets USP testing specifications

M4758
(±)-6-Methyl-5,6,7,8-tetrahydropterine dihydrochloride
~95% (TLC)

90669
(±)-α-Tocopherol
tested according to Ph. Eur.

54920

(*R*)-3-Hydroxybutyric acid
≥98.0% (T)

C6146
2-Butenoyl coenzyme A lithium salt
≥90% (HPLC)

D9150
2,3-Dimethoxy-5-methyl-*p*-benzoquinone
apoptosis inducer

D3385
3′-Dephosphocoenzyme A
≥90% (HPLC)

A1625
Acetoacetyl coenzyme A sodium salt hydrate
cofactor for acyl transfer

A2181
Acetyl coenzyme A lithium salt
≥93% (HPLC)

A2056
Acetyl coenzyme A trisodium salt
≥93% (HPLC), powder

ACOA-RO
Acetyl-Coenzyme A
85% (Enzymatic and Absorbance), 2% (lithium)

MAK039
Acetyl-Coenzyme A Assay Kit
sufficient for 100 fluorometric tests

MAK133
ADP Assay Kit
sufficient for 100 assays (bioluminescent)

MAK135
ADP/ATP Ratio Assay Kit
sufficient for 100 tests (bioluminescent)

A5837
Arachidonoyl coenzyme A lithium salt
≥85%

A0580
Arachidonylethanolamide
≥97.0% (TLC), oil

A1968
Ascorbic acid 6-palmitate
meets USP testing specifications

M3013
β-Methylcrotonyl coenzyme A lithium salt
≥90%

N7004
β-Nicotinamide adenine dinucleotide hydrate
≥96.5% (HPLC), ≥96.5% (spectrophotometric assay), from yeast

43410
β-Nicotinamide adenine dinucleotide hydrate
≥95% (HPLC)

N1636
β-Nicotinamide adenine dinucleotide hydrate
purified by column chromatography, ≥99%

N3014
β-Nicotinamide adenine dinucleotide hydrate
suitable for cell culture, ≥96.5% (HPLC), ≥96.5% (spectrophotometric assay), from yeast

B4501
Biotin
≥99% (HPLC), lyophilized powder

19606
Biotin
tested according to Ph. Eur.

B0301
Biotin
meets USP testing specifications

B4639
Biotin
powder, BioReagent, suitable for cell culture, suitable for insect cell culture, suitable for plant cell culture, ≥99%

B1508
Butyryl coenzyme A lithium salt hydrate
≥90%

C8731
Calcium pantothenate
meets USP testing specifications, monograph mol wt. 476.53 ($C_{18}H_{32}CaN_2O_{10}$)

C1357
Cholecalciferol
meets USP testing specifications

C9756
Cholecalciferol
≥98% (HPLC)

C4282
Coenzyme A hydrate
≥85% (UV, HPLC)

C3144
Coenzyme A sodium salt hydrate
cofactor for acyl transfer

C3019
Coenzyme A trilithium salt
≥93%

C2643
Coenzyme A, oxidized lithium salt
≥85%

C9538
Coenzyme Q_{10}
≥98% (HPLC)

27597
Coenzyme Q_9
≥96.0% (HPLC)

28007
Crotonoyl coenzyme A trilithium salt
~90% (HPLC)

C3607
Cyanocobalamin
meets USP testing specifications

43107

Cyanocobalamin
tested according to Ph. Eur.

D5269
Decanoyl coenzyme A monohydrate
≥90%

H6132
DL-3-Hydroxy-3-methylglutaryl coenzyme A sodium salt hydrate
≥90% (HPLC)

29992
DL-α-Tocopherol acetate
tested according to Ph. Eur.

H0261
DL-β-Hydroxybutyryl coenzyme A lithium salt
≥90%

47612
Folinic acid calcium salt hydrate
BioXtra, ≥99.0% (HPLC)

G9510
Glutaryl coenzyme A lithium salt
≥90%

MAK036
Hemin Assay Kit
sufficient for 100 colorimetric tests

H2012
Hexanoyl coenzyme A trilithium salt hydrate
≥85%

I0383
Isobutyryl coenzyme A lithium salt
≥85%

I9381
Isovaleryl coenzyme A lithium salt hydrate
≥90%

95212
L-Ascorbic acid
tested according to Ph. Eur.

A4544

L-Ascorbic acid
suitable for cell culture, suitable for plant cell culture, ≥98%

A2218
L-Ascorbic acid
meets USP testing specifications

A0278
L-Ascorbic acid
reagent grade

A7506
L-Ascorbic acid
reagent grade, crystalline

A5960
L-Ascorbic acid
BioXtra, ≥99.0%, crystalline

A92902
L-Ascorbic acid
99%

255564
L-Ascorbic acid
ACS reagent, ≥99%

L2659
Lauroyl coenzyme A lithium salt
≥90% (HPLC)

M4263
Malonyl coenzyme A lithium salt
≥90% (HPLC)

63410
Malonyl coenzyme A tetralithium salt
≥90% (HPLC)
M9429
Menadione
meets USP testing specifications

M1762
Methylmalonyl coenzyme A tetralithium salt hydrate
≥90% (HPLC)

M4414
Myristoyl coenzyme A lithium salt

≥80.0%

H1385
***n*-Heptadecanoyl coenzyme A lithium salt**
≥90%

P5397
***n*-Propionyl coenzyme A lithium salt**
≥85%

N5535
Niacinamide
meets USP testing specifications

72309
Nicotinic acid
≥99.5% (HPLC)

N0761
Nicotinic acid
BioReagent, suitable for cell culture, suitable for insect cell culture, suitable for plant cell culture, ≥98%

N4126
Nicotinic acid
≥98%

N5410
Nicotinic acid
meets USP testing specifications

A6706
***O*-Acetyl-L-carnitine hydrochloride**
≥99% (titration), powder

O6877
Octanoyl coenzyme A lithium salt hydrate
≥95% (HPLC)

O1012
Oleoyl coenzyme A lithium salt
≥90% (HPLC)

P6775
Palmitoleoyl coenzyme A lithium salt
~90%

P9716
Palmitoyl coenzyme A lithium salt
≥90%

P2153
Phenylacetyl coenzyme A lithium salt
~95%

P4722
Pyridoxine hydrochloride
meets USP testing specifications

P6280
Pyridoxine hydrochloride
BioReagent, suitable for cell culture, suitable for insect cell culture, suitable for plant cell culture

P9755
Pyridoxine hydrochloride
≥98% (HPLC)

77623
Riboflavin 5′-monophosphate sodium salt
tested according to Ph. Eur.

R7774
Riboflavin 5′-phosphate sodium salt hydrate
meets USP testing specifications

A7007
***S*-(5′-Adenosyl)-*L*-methionine chloride dihydrochloride**
≥75%

A2408
S-(5′-Adenosyl)-L-methionine *p*-toluenesulfonate salt
≥80% (HPLC), ≥80% (spectrophotometric assay)

S3381
Sodium stearate
≥99%

S4751
Stearic acid
Grade I, ≥98.5% (capillary GC)

S0802
Stearoyl coenzyme A lithium salt
≥90%

S1129
Succinyl coenzyme A sodium salt
≥85%

T4562
Thiamine hydrochloride
meets USP testing specifications

T4625
Thiamine hydrochloride
reagent grade, ≥99% (HPLC)

SMB00580
Vitamin K_4
≥98% (HPLC)

Chelating & Reducing Agents for Research

We offer a wide range of chelating and reducing agents in high-purity grades and diverse forms for biochemical research.

Chelators, or chelating agents, are found in biological substances and are utilized for the removal of heavy metal impurities, which can be often toxic, and restore cellular metabolism. Through their ring structures, chelators can establish two or more bonds with metal ions, resulting in the formation of water-soluble, stable complexes. Ethylenediamine, EDTA, and EGTA are well-known examples of chelators.

Conducting both protein biochemistry analysis and oxidation-reduction reactions necessitates the use of reducers or reducing agents, also known as reductants. Reductants donate electrons in a redox chemical reaction. Several common reducing agents are DL-Dithiothreitol (DTT), sodium dithionate, DTE, TCEP, β-mercaptoethanol (BME), and Nitrilotriacetic acid (NTA).

Read More About

- **Chelating Agents in Research**
- **Reducing Agents in Research**

CHELATING AGENTS IN RESEARCH

Chelators are used as complexing agents. They are helpful in various chemical and biochemical analyses as a buffer component, nucleic acid/protein degradation inhibitor, enzymatic reaction catalyzer, affinity chromatography, and cell culture. Chelators are potent therapeutic agents to balance metabolism and associated diseases such as anemia, cancer, acute kidney disease, aging, neurodegenerative disorders, etc. In industrial, analytical, and laboratory experiments, these metal-ion chelators are used as extractants, indicators, and metal separation agents.

REDUCING AGENTS IN RESEARCH

Reducers are utilized in proteomics methods such as protein purification, denaturation, and solubilization and are particularly adept in stabilizing free sulfhydryl groups and reducing disulfide (SH) bonds in proteins and peptides. In protein purification, they act as enzyme stabilizers within buffers, preventing aggregation by cysteine residue oxidation. Reducers also serve as biological antioxidants, averting protein oxidation and denaturing ribonucleases. Research has demonstrated that using chelating reagents in combination with reducing agents supports the removal of cationic heavy metals and anionic contaminants, such as arsenic.

20-158
0.5M EDTA

D8161
1,4-Dithioerythritol
BioReagent, for molecular biology, ≥99.0%

D9680
1,4-Dithioerythritol
BioXtra, ≥99.0%

D8255
1,4-Dithioerythritol
≥99.0%

43794
1,4-Dithioerythritol
≥99.0% (RT), BioUltra

1.24511
1,4-Dithioerythritol
for biochemistry

1.11474
1,4-Dithiothreitol
for biochemistry

M3148
2-Mercaptoethanol
for molecular biology, suitable for electrophoresis, suitable for cell culture, BioReagent, 99% (GC/titration)

63689
2-Mercaptoethanol
BioUltra, for molecular biology, ≥99.0% (GC)

172553
4,5-Dihydroxy-1,3-benzenedisulfonic acid disodium salt monohydrate
97%

09935
Ammonium pyrrolidinedithiocarbamate
purum p.a., ≥98.0% (NT)

444203
β-Mercaptoethanol, Molecular Biology Grade
A disulfide-reducing agent.

196418
BAPTA, Tetrasodium Salt
Ca2+ chelator exhibiting a 105-fold greater affinity for Ca2+ .

196419
BAPTA/AM
Membrane-permeable form of BAPTA.

233155
Cleland's Reagent
A protective agent for SH groups. Cyclizes as it reduces disulfides to thiols, so reaction is "driven" to completion. Does not contain waxy surfactant found in many other preparations. Oxidized dithiothreitol: ≤0.5%.

233153-M
Cleland's Reagent
ULTROL® Grade, ≥99% (titration), protective agent for SH groups

233156
Cleland's Reagent, Molecular Biology Grade
A protective agent for SH groups.

252750
Deferoxamine Mesylate
Iron chelating agent

17969

Diethylenetriamine-pentaacetic acid pentasodium salt solution
purum, ~40% in H_2O

233152
Dithioerythritol
A protective agent for SH groups.

43819
DL-Dithiothreitol
≥99.0% (RT)

D9163
DL-Dithiothreitol
suitable for electrophoresis, ≥99%

D5545
DL-Dithiothreitol
BioXtra, ≥99.0% (titration)

D0632
DL-Dithiothreitol
≥98% (HPLC), ≥99.0% (titration)

D9779
DL-Dithiothreitol
for molecular biology, ≥98% (HPLC), ≥99% (titration)

43815
DL-Dithiothreitol
BioUltra, for molecular biology, ≥99.5% (RT)

646563
DL-Dithiothreitol solution
1 M in H_2O

43816
DL-Dithiothreitol solution
BioUltra, for molecular biology, ~1 M in H_2O

317210
DM-NITROPHEN Reagent, Tetrasodium Salt
Caged Ca2+ chelator that undergoes a major and rapid decrease in Ca2+-binding affinity upon photolysis.

3860-OP
DTT
OmniPur® Grade, >= 99.4%, Used for reduction of protein disulfide linkages

DTT-RO

DTT
crystalline powder, =97% (Ellman′s reagent), M_r 154.3

324504
EDTA
ULTROL® Grade, 500 mM Solution, pH 8.0

324506
EDTA, 0.5 M, pH 8.0, Molecular Biology Grade, DEPC-Treated
Sterile-filtered solution of 0.5 M EDTA in H2O treated with diethyl pyrocarbonate (DEPC). Suitable for use in molecular biology applications.

324503
EDTA, Disodium Salt, Dihydrate, Molecular Biology Grade

324626
EGTA, Molecular Biology Grade

324628
EGTA/AM
Membrane-permeable form of the Ca2+-chelating agent EGTA.

03777
Ethylene glycol-bis(2-aminoethylether)-*N,N,N′,N′*-tetraacetic acid
BioUltra, for molecular biology, ≥99.0% (T)

E3889
Ethylene glycol-bis(2-aminoethylether)-*N,N,N′,N′*-tetraacetic acid
for molecular biology, ≥97.0%

E0396
Ethylene glycol-bis(2-aminoethylether)-*N,N,N′,N′*-tetraacetic acid
BioXtra, ≥97 .0%

E4378
Ethylene glycol-bis(2-aminoethylether)-*N,N,N′,N′*-tetraacetic acid
≥97.0%

4100-OP
Ethylene glycol-bis(2-aminoethylether)-N,N,N′,N′-tetraacetic acid
OmniPur® Grade, >=97.0%

E8145
Ethylene glycol-bis(β-aminoethyl ether)-N,N,N′,N′-tetraacetic acid tetrasodium salt
≥97%

E1649
Ethylenediamine

meets USP testing specifications

RDD017
Ethylenediaminetetraacetic acid
anhydrous, free-flowing, powder, Redi-Dri™, ACS reagent, 99.4-100.6%

4005-OP
Ethylenediaminetetraacetic acid
OmniPur® Grade, >= 99.5%

798681
Ethylenediaminetetraacetic acid
anhydrous, free-flowing, Redi-Dri™, ≥98%

03609
Ethylenediaminetetraacetic acid
BioUltra, ≥99.0% (KT)

E6758
Ethylenediaminetetraacetic acid
anhydrous, crystalline, BioReagent, suitable for cell culture

ED
Ethylenediaminetetraacetic acid
purified grade, ≥98.5%, powder

EDS
Ethylenediaminetetraacetic acid
BioUltra, anhydrous, ≥99% (titration)

E9884
Ethylenediaminetetraacetic acid
ACS reagent, 99.4-100.6%, powder

ED2SC
Ethylenediaminetetraacetic acid calcium disodium salt hydrate

03659
Ethylenediaminetetraacetic acid dipotassium salt dihydrate
BioUltra, ≥99.0% (KT)

03660
Ethylenediaminetetraacetic acid dipotassium salt dihydrate
puriss. p.a., ≥99.0% (KT)

ED2P

Ethylenediaminetetraacetic acid dipotassium salt dihydrate
≥98%

E5134
Ethylenediaminetetraacetic acid disodium salt dihydrate
suitable for electrophoresis, for molecular biology, 99.0-101.0% (titration)

E6635
Ethylenediaminetetraacetic acid disodium salt dihydrate
Sigma Grade, suitable for plant cell culture, 98.5-101.5%

ED2SS
Ethylenediaminetetraacetic acid disodium salt dihydrate
reagent grade, 98.5-101.5% (titration)

E4884
Ethylenediaminetetraacetic acid disodium salt dihydrate
ACS reagent, 99.0-101.0%

E1644
Ethylenediaminetetraacetic acid disodium salt dihydrate
98.5-101.5%, BioUltra

ED2SS
Ethylenediaminetetraacetic acid disodium salt dihydrate
reagent grade, 98.5-101.5% (titration)

03677
Ethylenediaminetetraacetic acid disodium salt dihydrate
BioUltra, for molecular biology, ≥99.0% (T)

03685
Ethylenediaminetetraacetic acid disodium salt dihydrate
≥97.0% (KT)

V900081
Ethylenediaminetetraacetic acid disodium salt dihydrate
Vetec™, reagent grade, 97%

4010-OP
Ethylenediaminetetraacetic acid disodium salt dihydrate
OmniPur® Grade, >= 99.0%

4055-OP
Ethylenediaminetetraacetic acid disodium salt solution
OmniPur® Grade

03690

Ethylenediaminetetraacetic acid disodium salt solution
BioUltra, for molecular biology, pH 8.0, ~0.5 M in H_2O

E7889
Ethylenediaminetetraacetic acid disodium salt solution
for molecular biology, 0.5 M in H_2O, DNase, RNase, NICKase and protease, none detected

EDFS
Ethylenediaminetetraacetic acid iron(III) sodium salt
powder

03650
Ethylenediaminetetraacetic acid iron(III) sodium salt hydrate
12-14% Fe basis

03695
Ethylenediaminetetraacetic acid tetrasodium salt dihydrate
purum, ≥98.0% (KT)

ED4SS
Ethylenediaminetetraacetic acid tetrasodium salt dihydrate
99.0-102.0% (titration)

E5391
Ethylenediaminetetraacetic acid tetrasodium salt hydrate
≥99.0%

ED4S
Ethylenediaminetetraacetic acid tetrasodium salt hydrate
practical grade, ≥95%

03699
Ethylenediaminetetraacetic acid tetrasodium salt hydrate
BioUltra, ≥99.0% (KT)

03664
Ethylenediaminetetraacetic acid tripotassium salt dihydrate
BioUltra, ≥99.0% (KT)

70072
Ethylenediaminetetraacetic acid tripotassium salt dihydrate
puriss. p.a., ≥99.0% (KT)

E0270
Ethylenediaminetetraacetic acid tripotassium salt dihydrate
98% (titration)

ED3SS
Ethylenediaminetetraacetic acid trisodium salt hydrate
≥95%

03709
Ethylenediaminetetraacetic acid trisodium salt trihydrate
BioUltra

72559
Nitrilotriacetic acid
BioUltra, ≥99.0% (T)

N9877
Nitrilotriacetic acid
Sigma Grade, ≥99%

528110-M
PIH
A cell-permeable, non-toxic tridendate iron (Fe3+) chelator of the aroyl hydrazone class.

71699
Sodium hydrosulfite
≥82% (RT)

580560
TCEP, Hydrochloride
A water-soluble and odorless disulfide-reducing agent that is more stable and effective than DTT.

580567
TCEP, Hydrochloride, Reagent Grade

580561
TCEP, Neutral
A ready-to-use stable, neutral form of the popular disulfide-reducing agent TCEP, Hydrochloride.

598250
THP
A water-soluble, neutral, and odorless disulfide reducing agent that is more stable and effective than DTT.

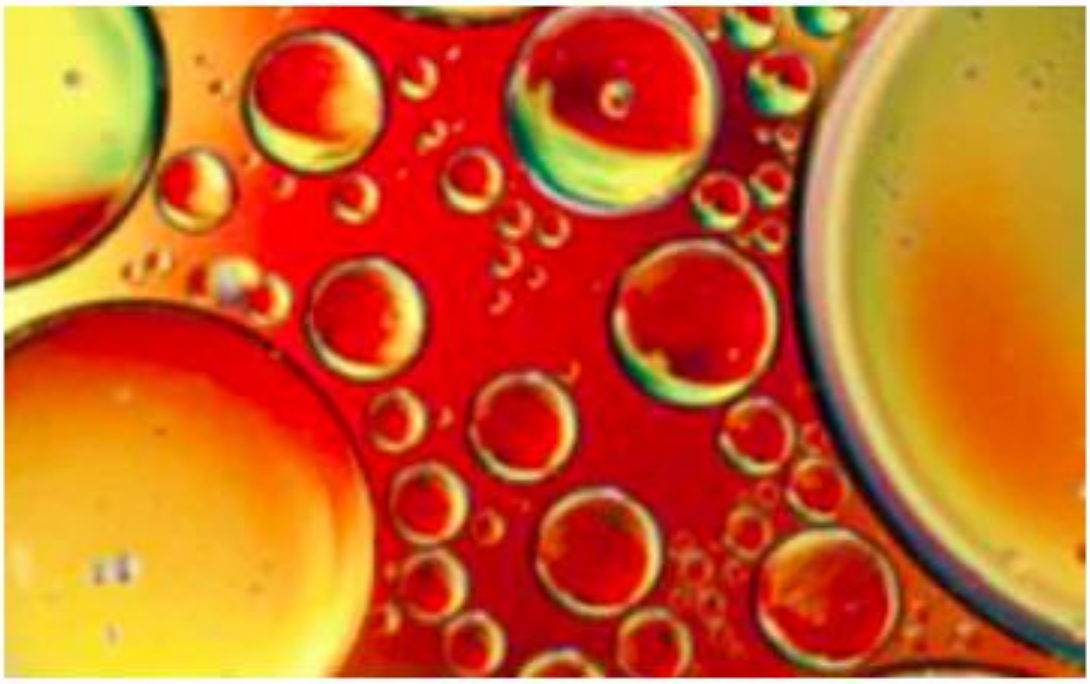
616394
TPEN

32869
***trans*-1,2-Diaminocyclohexane-*N,N,N',N'*-tetraacetic acid monohydrate**
puriss. p.a., ACS reagent, for complexometry, ≥99.0% (KT)

319945
***trans*-1,2-Diaminocyclohexane-*N,N,N',N'*-tetraacetic acid monohydrate**
ACS reagent, for complexometry, 98%

75259
Tris(2-carboxyethyl)phosphine hydrochloride
BioUltra, ≥98% (NMR)

Detergents - Anionic, Cationic, Zwitterionic, Anti-foaming



Detergents are surfactants or compounds that decrease the surface tension between two liquids or liquids and solids by solubilizing hydrophobic molecules. These water-soluble surface-active agents are comprised of a hydrophobic portion, usually a long alkyl chain, attached to hydrophilic or water solubility-enhancing functional groups. Detergents are commonly used in biochemistry, cell biology and molecular biology for cell lysis, membrane protein and lipid purification, protein crystallization, and reduction of background staining in blotting experiments.

We offer a broad range of biological detergents and surfactants to meet your research and manufacturing needs, including biodegradable alternatives per OECD 301F, such as **TERGITOL™ 15-S** and **ECOSURF™ surfactants**. Our detergent products include: anionic detergents, cationic detergents, zwitterionic detergents, non-ionic detergents, and anti-foaming agents. Our portfolio of chemically-stable products spans from reagent grade for general lab use to highly purified grades for the most demanding applications. Bulk and custom ordering options provide the same product from bench top to large scale manufacturing under ISO 90001:2008 certifications.

IONIC DETERGENTS

Ionic detergents contain anionic or cationic head groups and possess a net charge. Their hydrophobic tails are either straight hydrocarbon chains, as in sodium dodecyl sulfate (SDS) and cetyltrimethylammonium bromide (CTAB), or rigid steroidal groups, as in bile acid salts. Ionic detergents are extremely effective in membrane protein solubilization but are almost always

denaturing to some extent. Bile acid salts are anionic detergents with backbones consisting of rigid steroidal groups, e.g., sodium salts of cholic acid and deoxycholic acid. Because of their planar structure, these molecules have a polar and a nonpolar face. As a result, their CMC's are high and their micelles are small, which makes them easy to remove by dialysis.

NON-IONIC DETERGENTS

Non-ionic detergents contain uncharged, hydrophilic head groups that consist of either polyoxyethylene moieties, as in BRIJ® and Triton™ Detergents, or glycosidic groups, as in octyl glucoside and dodecyl maltoside. Since non-ionic detergents break lipid-lipid and lipid-protein, but not protein-protein interactions, they are considered non-denaturing. Thus, these gentle detergents are widely used in membrane protein isolation in their biologically active form. Unlike ionic detergents, salts have minimal effect on the micellar size of non-ionic detergents.

ZWITTERIONIC DETERGENTS

Zwitterionic detergents have characteristics of both ionic and non-ionic types. Like non-ionic detergents, the zwittergents do not possess a net charge, lack conductivity and electrophoretic mobility, and do not bind to ion-exchange resins. Therefore, they are often useful alternatives to non-ionic detergents in ion-exchange chromatography, electrophoresis, and isoelectric focusing. However, like ionic detergents, they are efficient at breaking protein-protein interactions. Steroid-based zwittergents, such as CHAPS, are less denaturing than linear-chain zwitterionic detergents (e.g., dodecyldimethyldiamine oxide).

43781
(Lauryldimethylammonio)acetate
≥95% (HPLC)

06941
(*N*,*N*-Dimethylmyristylammonio)acetate
≥97.0% (HPLC)

C2776
1-Cyano-4-dimethylaminopyridinium tetrafluoroborate
organic cyanylating reagent

42966
12-Hydroxy-octadecanoicacid polymer with α-hydro-ω-hydroxypoly(oxy-1,2-ethanediyl)

858120P
14:0 Lyso PG
Avanti Polar Lipids

858122P
16:0 Lyso PG
1-palmitoyl-2-hydroxy-*sn*-glycero-3-phospho-(1′-*rac*-glycerol) (sodium salt), powder

858124P
18:0 Lyso PG
Avanti Polar Lipids

858125P
18:1 Lyso PG
1-oleoyl-2-hydroxy-*sn*-glycero-3-phospho-(1′-*rac*-glycerol) (sodium salt), powder

82804
3-(1-Pyridinio)-1-propanesulfonate
≥97.0% (N)

17236
3-(Benzyldimethylammonio)propanesulfonate
BioXtra, ≥99.0% (HPCE)

D4266
3-(Decyldimethylammonio)propanesulfonate inner salt
zwitterionic detergent

T7763
3-(*N*,*N*-Dimethylmyristylammonio)propanesulfonate
≥99% (TLC)

T0807
3-(*N*,*N*-Dimethylmyristylammonio)propanesulfonate
≥99% (TLC), BioXtra

40772
3-(*N*,*N*-Dimethylmyristylammonio)propanesulfonate
≥98.0% (TLC)

H6883
3-(*N*,*N*-Dimethylpalmitylammonio)propanesulfonate
≥98% (TLC)

96193
5-Cyclohexylpentyl β-D-maltoside
≥98.0% (TLC)

29396
6-Cyclohexylhexyl β-D-maltoside
≥99.0% (TLC)

Z273198
Alcojet® detergent
pkg of 1.8 kg

Z273228
Alconox® detergent

0.5 oz packs

242985
Alconox® detergent
bulk packed

Z742914
Alconox® detergent
1.8Kg cartons

M7635
Alkyltrimethylammonium bromide
≥95% (TLC)

328693
ALNOCHROMIX™
box of 10 packs (10×3.1 oz PACKS)

09887
Ammonium lauryl sulfate solution
~30% in H_2O (T)

A0542
Amprolium hydrochloride

31592
Amprolium hydrochloride
VETRANAL®, analytical standard

A6426
Antifoam 204
mixture of organic polyether dispersions

A8311
Antifoam 204
aqueous emulsion for bacterial and mammalian systems

A6582
Antifoam A concentrate
active silicone polymer 100%

A5633
Antifoam A Concentrate
active silicone polymer 100 %

A5757
Antifoam B Emulsion
aqueous-silicone emulsion

A8011
Antifoam C Emulsion
aqueous-silicone emulsion

A8082
Antifoam O-30

A8582
Antifoam SE-15
aqueous emulsion for bacterial and mammalian systems

182750
ASB-14
A zwitterionic amidosulfobetaine detergent useful for solubilizing proteins visualized by 2D-electrophoresis.

A1346
ASB-14

Z660094
Bandelin STAMMOPUR 24 cleaning concentrate
residue-free rinsing, neutral scent

Z660051
Bandelin TICKOPUR R 27 cleaning concentrate
special acid cleaner for ultrasonic bath

Z660043
Bandelin TICKOPUR R 30 cleaning concentrate
neutral cleaner

Z660035
Bandelin TICKOPUR R 33 cleaning concentrate

Z660078
Bandelin TICKOPUR R 36 cleaning concentrate
special cleaner - tenside-free

Z660086
Bandelin TICKOPUR RW 77 cleaning concentrate
special cleaner with ammonia

B6295
Benzalkonium chloride
BioXtra

12060
Benzalkonium chloride
≥95.0% ((calculated on dry substance), T)

B8879
Benzethonium chloride
≥97% (titration), ≥98% (HPLC)

53751
Benzethonium chloride
BioUltra, ≥99.0% (AT)

13380
Benzyldimethyldodecylammonium chloride
≥99.0% (AT)

B4136
Benzyldimethylhexadecylammonium chloride
cationic detergent

13373
Benzyldodecyldimethylammonium bromide
≥99.0% (AT)

B5776
Benzyldodecyldimethylammonium bromide

48305
Bile salts
suitable for microbiology

203728
BRIJ® 35 Detergent, Protein Grade®, 10% Solution, Sterile-Filtered
Non-ionic detergent useful for the isolation of functional membrane complexes.

1.01894
Brij® 35 solution
(30% w/w in water) for biochemistry

P5884
Brij® 58
average M_n ~1124

16005
Brij® L23
main component: tricosaethylene glycol dodecyl ether

P1254
Brij® L23
suitable for Stein-Moore chromatography

B4184
Brij® L23 solution
30 % (w/v) in H_2O

235989
Brij® L4
average M_n ~362

P6136
Brij® O10

436240
BRIJ® O20
average M_n ~1,150

C0856
C7BzO

C5135
Castor Oil, Ethoxylated
pH range 6.0-8.0

30906
Castor Oil, Ethoxylated

07076
Castor Oil, Hydrogenated,Ethoxylated

RES1458C
CDAP

C0732
Cetylpyridinium chloride

meets USP testing specifications

219374
Cetyltrimethylammonium Bromide, Molecular Biology Grade
Cationic detergent suitable for the isolation of high molecular weight DNA in plants and other organisms.

CHAPS-RO
CHAPS
98% (from N), suitable for dialysis, solubility: >50% (Aqueous solutions)

3050-OP
CHAPS
OmniPur® Grade, Zwitterionic detergent

V900480
CHAPS
Vetec™, reagent grade, 96%

850500P
CHAPS
Avanti Polar Lipids

19899
CHAPS 100 mM solution

C5070
CHAPS hydrate
BioXtra, ≥98% (TLC)

C9426
CHAPS hydrate
BioReagent, suitable for electrophoresis, ≥98% (HPLC)

C3023
CHAPS hydrate
≥98% (HPLC)

220201
CHAPS, Molecular Biology Grade
CAS 75621-03-3 is a zwitterionic detergent that combines features of bile salts and N-alkyl sulfobetaines.

C3649
CHAPSO
≥98%

C4695

CHAPSO
BioXtra

850501P
CHAPSO
Avanti Polar Lipids 850501P, powder

850524P
CHEMS
Avanti Polar Lipids

C9377
Chenodeoxycholic acid

C1129
Cholic acid
from bovine and/or ovine, ≥98%

V900488
Cholic acid
Vetec™, reagent grade, 98%

229101
Cholic Acid, Sodium Salt
Primary bile acid.

Z273236
CITRANOX® acid detergent
biodegradable

238470
Cremophor® EL

30472
DCN 90
concentrate

00413
DDMAB
≥94%

D5394
Decyl β-D-glucopyranoside
≥98% (GC)

D7658
Decyl β-D-maltopyranoside
≥98% (GC)

D2510
Deoxycholic acid
≥98% (HPLC)

30960
Deoxycholic acid
≥99.0% (T)

Z278491
Detergent 8®, liquid detergent
pack of 3.8 L in 1EA

Z742919
Detergent 8®, liquid detergent
pkg of 19 L (Jerrycan)

Z742920
Detojet® low foaming liquid detergent
package of 3.8 L

850042P
Dicetyl phosphate
Avanti Polar Lipids

D141
Digitonin
Used as non-ionic detergent

D5628
Digitonin
~50% (TLC)

D9404
Digitoxigenin

D2631
Dihexadecyl phosphate

40165
Dimethyldioctadecylammonium bromide
≥98.0% (AT)

D2779
Dimethyldioctadecylammonium bromide
≥98% (TLC)

D0195
Dimethylethylammoniumpropane sulfonate
≥97% (TLC)

D1685
Docusate sodium
meets USP testing specifications

86139
Docusate sodium salt
BioUltra, ≥99.0% (TLC)

D4422
Docusate sodium salt
BioXtra, ≥99%

44165
Dodecylethyldimethylammonium bromide
≥98.0% (AT)

D5047
Dodecyltrimethylammonium bromide
BioXtra, ~99%

D8638
Dodecyltrimethylammonium bromide
≥98%

44239
Dodecyltrimethylammonium bromide
suitable for ion pair chromatography, LiChropur™, ≥98.5% (AT)

V900304
Dodecyltrimethylammonium bromide
Vetec™, reagent grade, 98%

17104
Dodecyltrimethylammonium chloride
purum, ≥98.0% anhydrous basis (AT)

44242
Dodecyltrimethylammonium chloride
≥99.0% (AT)

V900884
Dodecyltrimethylammonium chloride
Vetec™, reagent grade, ≥98%

STS0211
ECO Brij® L23

STS0212
ECO BRIJ® L4
average M_n ~362

STS0213
ECO BRIJ® O10

STS0214
ECO BRIJ® O20
average M_n ~1,150

STS0200
ECO TWEEN® 20
viscous liquid

STS0201
ECO TWEEN® 40
viscous liquid

STS0202
ECO TWEEN® 60
non-ionic detergent

STS0203
ECO TWEEN® 65

STS0204
ECO TWEEN® 80
viscous liquid

STS0205
ECO TWEEN® 85

STS0006

ECOSURF™ EH-9
Non-ionic surfactant

STS0012
ECOSURF™ EH-9 solution
90% aqueous solution

STS0007
ECOSURF™ SA-9
Non-ionic surfactant

Z637238
Edisonite™ universal detergent
weight 5 kg

30326
EMPIGEN® BB detergent
~30% active substance

03747
Ethylene glycol
BioUltra, ≥99.5% (GC)

03819
Ethylene glycol monododecyl ether
BioXtra, ≥99.0% (GC)

03823
Ethylene glycol monohexyl ether
BioXtra, ≥99.0% (GC)

C0636
Ethylhexadecyldimethylammonium bromide
≥98% (non-aqueous titration)

59920C
EX-CELL® Antifoam
gamma irradiated

850522P
Facade®-EM
3α-hydroxy-7α,12α-di-((O-β-D-maltosyl)-2-hydroxyethoxy)-cholane, powder

850539P
Facade®-EPC
3α-hydroxy-7α,12α-di-(((2-(trimethylamino)ethyl)phosphoryl)ethyloxy)-cholane, powder

850537P
Facade®-TEM
3α,7α,12α-tri-((O-β-D-maltopyranosyl)ethyloxy)-cholane, powder

850526P
Facade®-TFA1
Facade®-TFA1, powder

21123
GC Stationary Phase
phase Triton X-100, bottle of 50 g

850525P
GDN
Avanti Polar Lipids

61028
Genapol® C-100

48750
Genapol® X-080

G6923
Genapol® X-100

640007P
Girard Reagent
Avanti Polar Lipids

G900
Girard′s reagent T
98%

49122
Glucopone 600 CS UP solution
~50% in H_2O, paste

G2878
Glycocholic acid hydrate
synthetic, ≥97% (HPLC)

06863
Glycoursodeoxycholic acid
≥96.0% (TLC)

RDD001
Guanidine hydrochloride
anhydrous, free-flowing, Redi-Dri™, ≥99%

50940
Guanidine hydrochloride
≥99.0% (AT)

50933
Guanidine hydrochloride
BioUltra, for molecular biology, ≥99.5% (AT)

50937
Guanidine hydrochloride solution
BioUltra, ~8 M in H_2O

SRE0066
Guanidine hydrochloride solution, 6M

V900474
Guanidine thiocyanate
Vetec™, reagent grade, ≥97%

11685929001
Guanidine thiocyanate

50981
Guanidine thiocyanate
BioReagent, for molecular biology, ≥99%

50983
Guanidine thiocyanate solution
BioUltra, for molecular biology, ~6 M in H_2O

373272
HECAMEG
Non-ionic detergent useful for solubilization of membrane-bound proteins in their native state. Easily removed by dialysis.

52340
Hexadecylpyridinium bromide

≥97.0%

C9002
Hexadecylpyridinium chloride monohydrate

36932
Hexadecyltrimethylammonium bromide
analytical standard

52367
Hexadecyltrimethylammonium bromide
suitable for ion pair chromatography, LiChropur™

V900413
Hexadecyltrimethylammonium bromide
Vetec™, reagent grade, 96%

52370
Hexadecyltrimethylammonium bromide
≥96.0% (AT)

52365
Hexadecyltrimethylammonium bromide
BioUltra, for molecular biology, ≥99.0% (AT)

H6269
Hexadecyltrimethylammonium bromide
for molecular biology, ≥99%

H9151
Hexadecyltrimethylammonium bromide
BioXtra, ≥99%

H5882
Hexadecyltrimethylammonium bromide
≥98%

52366
Hexadecyltrimethylammonium chloride
≥98.0% (NT)

C8147
Hexadecyltrimethylammonium p-toluenesulfonate

53180
Hexyl β-D-glucopyranoside
≥98.0% (TLC)

I8896
IGEPAL® CA-630
for molecular biology

I3021
IGEPAL® CA-630
viscous liquid

56741
IGEPAL® CA-630

238589
IGEPAL® CA-720
average M_n ~735

I5502
Isopropyl β-D-1-thiogalactopyranoside
≥99% (TLC)

02286
Kollidon® 25

91462
Kollisolv® PEG E 300

06855
Kollisolv® PEG E 400

G4376
L-Glutathione oxidized
≥98% (HPLC)

850545P
LDAO
Avanti Polar Lipids

Z742915
Liquinox® phosphate-free liquid detergent
947 mL packs

Z742916
Liquinox® phosphate-free liquid detergent
3.8 L packs

D3635
Lithium 3,5-diiodosalicylate
analytical standard

L5901
Lithium dodecyl sulfate
BioXtra, ≥98.5% (GC)

L4632
Lithium dodecyl sulfate
≥98.5% (GC)

L9781
Lithium dodecyl sulfate
BioReagent, for molecular biology, suitable for electrophoresis

V900352
Lithium dodecyl sulfate
Vetec™, reagent grade, ≥98.5%

L6250
Lithocholic acid
≥95%

850527P
Mal(11.1)
dodecan-2-yloxy-β-D-maltoside, powder

850528P
Mal(11.2)
tridecan-3-yloxy-β-D-maltoside, powder

850334P
MAPCHO®-10
Avanti Polar Lipids 850334P, powder

850336P
MAPCHO®-12
Avanti Polar Lipids

850338P
MAPCHO®-14
n-tetradecylphosphocholine, powder

850337P
MAPCHO®-16
n-hexadecylphosphocholine, powder

850542P
MEGA-10
Avanti Polar Lipids 850542P, powder

850540P
MEGA-8
Avanti Polar Lipids 850540P, powder

850541P
MEGA-9
Avanti Polar Lipids 850541P, powder

M6768
Methoxypolyethylene glycol 350
average mol wt 350

70718
Methoxypolyethylene glycol 5,000 acetic acid
≥80%

88908
Methoxypolyethylene glycol 5,000 propionic acid
≥80%

63187
Methoxypolyethylene glycol maleimide
≥90% (NMR), 5,000

M3903
Methoxypolyethylene glycol p-nitrophenyl carbonate
average mol wt 5,000

85976
Methoxypolyethylene glycol succinate *N*-hydroxysuccinimide
5,000, ≥90%

M7379
Methylbenzethonium chloride

M5571
Miltefosine
≥98% (perchloric acid titration)

850546P
MSDH
Avanti Polar Lipids 850546P, powder

87208
Myristyltrimethylammonium bromide
suitable for ion pair chromatography, LiChropur™, ≥99.0% (AT)

87210
Myristyltrimethylammonium bromide
98% (AT)

T4762
Myristyltrimethylammonium bromide
≥99%

D6277
***N*-Decanoyl-*N*-methylglucamine**
≥98% (GC)

850521P
n-decyl-β-D-maltoside
n-decyl-β-D-maltopyranoside, powder

D8035
***n*-Dodecyl β-D-glucopyranoside**
≥98% (GC)

D5172
***n*-Dodecyl β-D-maltoside**
BioXtra, ≥98% (GC)

D4641
***n*-Dodecyl β-D-maltoside**
≥98% (GC)

324355
n-Dodecyl β-D-maltoside
ULTROL® Grade, ≥98% (HPLC), non-ionic detergent for the stabilization and activation of enzymes

850520P
n-dodecyl-β-D-maltoside (DDM)
Avanti Polar Lipids

250520P
N-Dodecyl-Beta-D-Maltoside (DDM, 85%)
Avanti Polar Lipids

D0431
***N*-Dodecyl-*N*,*N*-dimethyl-3-ammonio-1-propanesulfonate**

40232
***N*-Dodecyl-*N*,*N*-dimethyl-3-ammonio-1-propanesulfonate**
≥97.0% (dried material, CHN)

H3264
***n*-Heptyl β-D-thioglucopyranoside**
≥99% (GC)

61739
***N*-Lauroylsarcosine**
purum p.a., ≥98.0% (GC)

L5125
***N*-Lauroylsarcosine sodium salt**
≥94%

L5777
***N*-Lauroylsarcosine sodium salt**
BioXtra, ≥97% (TLC)

L9150
***N*-Lauroylsarcosine sodium salt**
detergent for use in cell lysis

61745
***N*-Lauroylsarcosine sodium salt**
≥97.0% (HPLC)

61743
***N*-Lauroylsarcosine sodium salt**
BioUltra, for molecular biology, ≥99.0% (HPLC)

61747
N-Lauroylsarcosine sodium salt solution
30% aqueous solution, ≥97.0% (HPLC)

L7414
N-Lauroylsarcosine sodium salt solution
20%, for molecular biology

L5000
***N*-Lauroylsarcosine, neat**
≥95%

N1138
***N*-Nonanoyl-*N*-methylglucamine**
≥98%

850510P
n-nonyl-β-D-glucoside
n-nonyl-β-D-glucopyranoside, powder

O3129
***N*-Octanoyl-*N*-methylglucamine**
≥97% (GC)

19181
***n*-Octyl β-D-maltoside**
≥99.0% (HPLC)

850511P
n-octyl-β-D-glucoside
Avanti Polar Lipids

10634425001
***n*-Octylglucoside**
non-ionic

40103
***N,N*-Dimethyldecylamine *N*-oxide**
≥99.0% (NT)

40234
***N,N*-Dimethyldodecylamine *N*-oxide**
BioXtra, ≥99.0% (NT)

40236
***N,N*-Dimethyldodecylamine *N*-oxide solution**
~30% in H_2O

40166
***N,N*-Dimethyltetradecylamine *N*-oxide**
≥98.0% (NT)

N0665
NDSB 211
≥98% (TLC)

N7507
Nonyl β-D-glucopyranoside
≥97.0% (GC)

492016
NP-40 Alternative

492018
NP-40 Alternative, PROTEIN GRADE® Detergent, 10% Solution, Sterile-Filtered
A non-ionic surfactant useful for the isolation and purification of functional membrane protein complexes. This detergent has been purified to reduce levels of contaminating aldehydes, metals, peroxides, and salts.

O6004
Octyl β-D-1-thioglucopyranoside
≥98.0% (GC)

V900365
Octyl β-D-glucopyranoside
Vetec™, reagent grade, 98%

O8001
Octyl β-D-glucopyranoside
≥98% (GC)

O9882
Octyl β-D-glucopyranoside
BioXtra, ≥98% (GC)

O3757
Octyl β-D-glucopyranoside solution
≥95% (HPLC), 50 % (w/v) in H_2O

18842
Octyl-β-D-glucopyranoside 100 mM solution

9480-OP
OmniPur®Polyoxyethylene (20) Sorbitan Monolaurate

O5015
Oxybutynin chloride
meets EP, USP testing specifications

850556O
Phytantriol (mixed isomers)
Avanti Polar Lipids 850556O

P2443
Pluronic® F-127
powder, BioReagent, suitable for cell culture

540025
Pluronic® F-127, PROTEIN GRADE® Detergent, 10% Solution, Sterile-Filtered
Non-ionic detergent useful for isolation of membrane proteins.

K4894
Poloxamer 188
solid

15759
Poloxamer 188

P5556
Poloxamer 188 solution
10%, sterile-filtered, BioReagent, suitable for insect cell culture

78973
Poloxamer 188, micronized

62035
Poloxamer 407
oxyethylene 71.5-74.9 %

16758
Poloxamer 407
purified, non-ionic

50246
Poloxamer 407, micronized

P6667
Poly(ethylene glycol)
average mol wt 10,000

P5413
Poly(ethylene glycol)
for molecular biology, average mol wt 8,000

P3015
Poly(ethylene glycol)
average mol wt 200

P3515
Poly(ethylene glycol)
average M_n 950-1,050

84797
Poly(ethylene glycol)
BioUltra, 2,000

89510
Poly(ethylene glycol)
BioUltra, 8,000

87333
Poly(ethylene glycol)
BioUltra, 600

86101
Poly(ethylene glycol)
BioUltra, 1,500

90878
Poly(ethylene glycol)
BioUltra, 300

03394
Poly(ethylene glycol)
tested according to Ph. Eur., 6,000

81188
Poly(ethylene glycol)
BioUltra, 1,000

81189
Poly(ethylene glycol)
BioUltra, for molecular biology, 1,000

81172
Poly(ethylene glycol)
tested according to Ph. Eur., 400

95904
Poly(ethylene glycol)
BioUltra, 4,000

91893
Poly(ethylene glycol)
BioUltra, 400

81253
Poly(ethylene glycol)
BioUltra, for molecular biology, 6,000

81242
Poly(ethylene glycol)
tested according to Ph. Eur., 4,000

88440
Poly(ethylene glycol)
BioUltra, 200
95172
Poly(ethylene glycol)
BioUltra, 20,000

94646
Poly(ethylene glycol)
BioUltra, 35,000

81227
Poly(ethylene glycol)
BioUltra, 3,000

81275
Poly(ethylene glycol)
tested according to Ph. Eur., 20,000

81268
Poly(ethylene glycol)
BioUltra, for molecular biology, 8,000

92897
Poly(ethylene glycol)
BioUltra, 10,000

88276
Poly(ethylene glycol)
BioUltra, 3,350

81255
Poly(ethylene glycol)
BioUltra, 6,000

71578
Poly(ethylene glycol) methyl ether
BioUltra, 500

40530
Poly(ethylene glycol) octyl ether

10783641001
Polyethylene Glycol 1500
M_r ~1500, pkg of 10 × 4 mL, solution

81269
Polyethylene glycol 3000 monodisperse solution
BioUltra, for molecular biology, ~50% in H_2O

P1458
Polyethylene glycol solution
40 % (w/w) in H_2O, average mol wt 8,000

76293
Polyethylene glycol solution
BioUltra, for molecular biology, 1,000, ~50% in H_2O

93774
Polyoxyethylene (20) sorbitan monolaurate solution
ampule, ~10% in H_2O

P3440
Polyoxyethylene (40) stearate

44112
Polysorbate 20
tested according to Ph. Eur.

95754
Polysorbate 60
tested according to Ph. Eur.

59924
Polysorbate 80
tested according to Ph. Eur.

V900008
Polyvinylpyrrolidone
Vetec™, reagent grade, average mol wt 40,000

V900009
Polyvinylpyrrolidone
Vetec™, reagent grade, average mol wt 10,000

V900010
Polyvinylpyrrolidone
Vetec™, reagent grade, average mol wt 360,000

PVP40
Polyvinylpyrrolidone
average mol wt 40,000

Z637327
Pursept®-A disinfectant replacement atomizer for 1L bottles

83460
RBS™ 25 solution
concentrate

83461
RBS™ 35 solution
concentrate

83462
RBS™ 50 solution
concentrate

41519
RBS™ A 285 SOLID pF
low foam, phosphate-free

83465
RBS™ T230
concentrate

SAE0073
Saponin

84510
Saponin
used as non-ionic surfactant

47036
Saponin
for molecular biology, used as non-ionic surfactant

S7900
Saponin from quillaja bark
Sapogenin content ≥10 %

S4521
Saponin Quillaja sp.
Sapogenin content 20-35 %

Z273260
Scienceware® Aquet® liquid detergent

S5201
Sericin *Bombyx mori* (silkworm)

85390
Silicone Antifoam
30% in H_2O, emulsion

V900357
Sodium 1-heptanesulfonate
Vetec™, reagent grade

71220
Sodium 2-ethylhexyl sulfate
~50% in H_2O

D8016
Sodium 2,3-dimercaptopropanesulfonate monohydrate
95%

C8261
Sodium chenodeoxycholate
≥97%

27029
Sodium cholate hydrate
≥97.0% (dried material, NT)

C6445
Sodium cholate hydrate
BioXtra, ≥99%

C9282
Sodium cholate hydrate
suitable for cell culture, BioReagent

C1254
Sodium cholate hydrate
from bovine and/or ovine bile, ≥99%

S9875
Sodium choleate

C9523
Sodium cholesteryl sulfate

V900388

Sodium deoxycholate
Vetec™, reagent grade, ≥97%

SRE0046
Sodium deoxycholate
Suitable for manufacturing of diagnostic kits and reagents

30970
Sodium deoxycholate
BioXtra, ≥98.0% (dry matter, NT)

D6750
Sodium deoxycholate
≥97% (titration)

30968
Sodium deoxycholate monohydrate
BioUltra, ≥99.0% (NT)

D5670
Sodium deoxycholate monohydrate
BioXtra, ≥99.0% (titration)

7910-OP
Sodium dodecyl sulfate
OmniPur®

428015
Sodium dodecyl sulfate
An ionic detergent useful in electrophoretic separation of proteins and lipids.

RDD021
Sodium dodecyl sulfate
anhydrous, free-flowing, Redi-Dri™, ACS reagent, ≥99.0%

71729
Sodium dodecyl sulfate
≥98.0% (GC)

71726
Sodium dodecyl sulfate
suitable for ion pair chromatography, LiChropur™, ≥99.0%

62862
Sodium dodecyl sulfate
≥90% ((Assay))

71725
Sodium dodecyl sulfate
BioUltra, for molecular biology, ≥99.0% (GC)

L3771
Sodium dodecyl sulfate
BioReagent, suitable for electrophoresis, for molecular biology, ≥98.5% (GC)

L6026
Sodium dodecyl sulfate
BioXtra, ≥99.0% (GC)

L4509
Sodium dodecyl sulfate
ReagentPlus®, ≥98.5% (GC)

L5750
Sodium dodecyl sulfate
92.5-100.5% based on total alkyl sulfate content basis

71717
Sodium dodecyl sulfate
tested according to NF, mixture of sodium alkyl sulfates consisting mainly of sodium dodecyl sulfate

75746
Sodium dodecyl sulfate
≥99.0% (GC), dust-free pellets

436143
Sodium dodecyl sulfate
ACS reagent, ≥99.0%

11667289001
Sodium Dodecyl Sulfate (SDS)
anionic, electrophoresis grade

71736
Sodium dodecyl sulfate solution
BioUltra, for molecular biology, 10% in H_2O

05030
Sodium dodecyl sulfate solution
BioUltra, for molecular biology, 20% in H_2O

50534
Sodium glycochenodeoxycholate
≥97.0% (TLC)

G0759
Sodium glycochenodeoxycholate

G7132
Sodium glycocholate hydrate
≥95% (TLC)

G9910
Sodium glycodeoxycholate
BioXtra, ≥97% (HPLC)

71699
Sodium hydrosulfite
≥82% (RT)

75073
Sodium octyl sulfate
suitable for ion pair chromatography, LiChropur™, ≥99.0% (T)

O4003
Sodium octyl sulfate
≥95%

T6260
Sodium taurochenodeoxycholate

86339
Sodium taurocholate hydrate
≥97.0% (TLC)

T0875
Sodium taurodeoxycholate hydrate
≥95% (HPLC)

T0557
Sodium taurodeoxycholate hydrate
BioXtra, ≥97% (TLC)

T0682
Sodium taurohyodeoxycholate hydrate
≥98%

T7515
Sodium taurolithocholate

T0266
Sodium tauroursodeoxycholate

16172
SODOSIL™ RA 13
highly alkaline cleaner

16188
SODOSIL™ RA 14
mildly alkaline, chlorine and phosphate-free cleaner

16173
SODOSIL™ RA 15
liquid, alkaline cleaner free of phosphates, low foaming for rinsing apparatus

16187
SODOSIL™ RA 17
alkaline cleaner free of chlorine

16174
SODOSIL™ RA 21
acid pre-rinse and rinsing solution with phosphoric acid

16166
SODOSIL™ RM 01
alkaline cleaner

16006
SP Brij® S2 MBAL
main component: diethylene glycol octadecyl ether

S1266
Sucrose monodecanoate

84110
Sucrose monolaurate
BioXtra, ≥97.0% (TLC)

07579
Synperonic® F 108
surfactant, non-ionic

86216
Synperonic® PE P105
surfactant

713538
Synperonic® PE/P84

T4009
Taurocholic acid sodium salt hydrate
≥95% (HPLC)

T9034
Taurocholic acid sodium salt hydrate
BioXtra, ≥95% (HPLC)

580221
Taurodeoxycholic Acid, Sodium Salt
Detergent useful for the solubilization of lipids and membrane-bound proteins. Aggregation number: 6.

T0512
Taurolithocholic acid 3-sulfate disodium salt

580549
Tauroursodeoxycholic Acid, Sodium Salt
Tauroursodeoxycholic is a detergent useful for the solubilization of lipids and membrane-bound proteins.

86350
Teepol™ 610 S
anionic

Z273287
Terg-a-zyme® enzyme detergent
pack of 11 kg

Z742918
Terg-a-zyme® enzyme detergent
package of 1.8 kg

NP9
TERGITOL™
Type NP-9

NP10
TERGITOL™
Type NP-10

T1135
TERGITOL™
MIN FOAM 1x

15S7
TERGITOL™
Type 15-S-7

15S9
TERGITOL™
Type 15-S-9

STS0014
TERGITOL™ 15-S-15
Non-ionic surfactant

STS0001
TERGITOL™ 15-S-30
Non-ionic surfactant

STS0002
TERGITOL™ 15-S-40
Non-ionic surfactant

STS0003
TERGITOL™ 15-S-40 solution
70% aqueous solution

STS0013
TERGITOL™ 15-S-5
Non-ionic surfactant

NP40S
TERGITOL™ solution
Type NP-40, 70% in H_2O

86454
TERGITOL™ TMN 10
Non-ionic, 1313 ppm, liquid, cloud point 76 °C

86453
TERGITOL™ TMN 6
Liquid, 800 ppm, cloud point 36 °C

STS0004
TERGITOL™ TMN-100X solution

15826
Tetradecyl-β-D-maltoside
≥99.0% (TLC)

86614
Tetraethylammonium chloride
BioUltra, for molecular biology, ≥99.0% (AT)

113042
Tetraethylammonium chloride hydrate

T3396
Tetraglycol
BioXtra

87296
Tetraheptylammonium bromide
suitable for ion pair chromatography, LiChropur™, ≥99.0% (AT)

87578
Tetrakis(decyl)ammonium bromide
suitable for ion pair chromatography, LiChropur™, ≥99.0% (AT)

T3411
Tetramethylammonium chloride solution
for molecular biology

T7505
Tetramethylammonium hydroxide pentahydrate
≥97%

88315
Thesit®
for membrane research

890809P
Trehalose monooleate
Avanti Polar Lipids 890809P, powder

91661
Tridodecylmethylammonium chloride

Selectophore™

53112
Trimethyloctadecylammonium chloride
≥95.0% (calc. on dry substance, T)

STS0005
Triton™ CG-110
Non-ionic surfactant

303135
Triton™ N-101, reduced

N60
Triton™ N-60

V900502
Triton™ X-100
Vetec™, reagent grade

T9284
Triton™ X-100
BioXtra

T8787
Triton™ X-100
for molecular biology

X100PC
Triton™ X-100
peroxide- and carbonyl-free

X100
Triton™ X-100
laboratory grade

1.08603
Triton™ X-100
for analysis

X100RS
Triton™ X-100 reduced

93443
Triton™ X-100 solution
BioUltra, for molecular biology, ~10% in H_2O

648463
Triton™ X-100, PROTEIN GRADE® Detergent, 10% Solution, Sterile-Filtered
Non-ionic detergent useful for isolation of membrane proteins.

X102
Triton™ X-102

X114
Triton™ X-114
laboratory grade

93422
Triton™ X-114

X165
Triton™ X-165 solution
Non-ionic, CMC-0.43 mM, suitable for electrophoresis, cloud point >100 °C

X305
Triton™ X-305 solution
70% in H_2O

X405
Triton™ X-405 solution
70% in H_2O

X45
Triton™ X-45

16316
Turkey red oil sodium salt
for microscopy

T2700
TWEEN® 20
meets EP testing specifications

93773
TWEEN® 20
viscosity 250-450 mPa.s (25 °C)

11332465001
TWEEN® 20
non-ionic, aqueous solution, 10% (w/v)

655204
TWEEN® 20
Detergent, Molecular Biology Grade, Specific gravity: 1.100-1.110 (20°C).

V900548
TWEEN® 20
Vetec™, reagent grade, 40%

P9416
TWEEN® 20
for molecular biology, viscous liquid

P8341
TWEEN® 20
Low-peroxide; Low-carbonyls

P1379
TWEEN® 20
viscous liquid

P7949
TWEEN® 20
BioXtra, viscous liquid

P2287
TWEEN® 20
viscous liquid, suitable for cell culture

T2700
TWEEN® 20
meets EP testing specifications

655206
TWEEN® 20, PROTEIN GRADE® Detergent, 10% Solution, Sterile-Filtered
Non-ionic detergent used for immunoprecipitation and for the solubilization of membrane-bound proteins. Conductivity:50 µS/cm.

P1504
TWEEN® 40
viscous liquid

P1629
TWEEN® 60
nonionic detergent

P3190
TWEEN® 65

P4780
TWEEN® 80
suitable for cell culture, suitable for insect cell culture, viscous liquid

P6224
TWEEN® 80
from non-animal source

P6474
TWEEN® 80
viscous liquid, Preservative Free, Low-peroxide; Low-carbonyls

P5188
TWEEN® 80
for molecular biology, syrup

P8074
TWEEN® 80
BioXtra, viscous liquid

P1754
TWEEN® 80
viscous liquid

P6349
TWEEN® 80
viscous liquid, Low-peroxide

V900507
TWEEN® 80
Vetec™, reagent grade

655207
TWEEN® 80
PROTEIN GRADE Detergent, 10% Solution, Sterile-Filtered. Non-ionic detergent used for immunoprecipitation and for the solubilization of membrane-bound proteins. Supplied as a 10% (W/W) solution of PROTEIN GRADE TWEEN 80 detergent. Conductivity:≤50 µmhos.

P8192
TWEEN® 80 solution
10%, low peroxide

P4634
TWEEN® 85

T8761
Tyloxapol
nonionic surfactant

T0307
Tyloxapol
BioXtra

94206
Undecyl β-D-maltoside
≥99.0% (TLC)

U5127
Ursodeoxycholic acid
≥99%

693021
Zwittergent® 3-10 Detergent
A synthetic zwitterionic detergent, which unlike other amphoteric surfactants, retains its zwitterionic character over a broad pH range.

693015
Zwittergent® 3-12 Detergent
A synthetic zwitterionic detergent, which unlike other amphoteric surfactants, retains its zwitterionic character over a broad pH range.

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Псков (8112)59-10-37
Пермь (342)205-81-47
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Рязань (4912)46-61-64
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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
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