

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

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

www.sigmaaldrich.nt-rt.ru | | scx@nt-rt.ru

Технические характеристики на наборы для анализа метаболизма, библиотеки и смеси метаболитов, витамины, нуклеозиды и нуклеотиды компании **Sigma-Aldrich**

Виды товаров: витамины А, С, D, E, K, B1, тиамин, B2-рибофлавин, B3-ниацин, B5-пантотеновая кислота, B7-биотин, B6, B12 и фолат, фолиевая кислота и B9, нуклеозиды, амидиты, нуклеотиды, нуклеиновые кислоты, липиды, витамины, биоактивные малые молекулы и др.

Metabolite Libraries



METABOLITE LIBRARIES AND MIXTURES

Metabolite libraries and mixtures provide a convenient solution for identifying hundreds of metabolites in metabolomics testing and analysis, primarily for metabolite qualification and quantification in MS and NMR, functional cellular assays, and phenotypic screening. Our portfolio includes:

Ready-to-use standard mixture solutions for various research purposes, such as quantification, disease-related metabolite studies, or quality control samples in LC-MS.

IROA Technologies plated metabolite libraries containing numerous diverse classes of metabolites, each individually placed in a 96-well plate. Each library includes a user manual, plate map, and MLSDiscovery™ software for data extraction, manipulation, and storage for building internal libraries.

Small molecule metabolite libraries and kits covering key metabolic pathways, including a Glycolysis/Gluconeogenesis kit, Pentose Phosphate kit, TCA Cycle kit, and Urea Cycle kit.

ML0010

TCA Cycle Metabolite Library



SMB00917

Deuterated Amino Acid Standard Mixture

suitable for mass spectrometry (MS)



GUTMLS

Microbiome Metabolite Library Of Standards

Supplied by IROA Technologies



SMB00967

Bile Acids Standard Mixture

suitable for mass spectrometry (MS)



V1

Vitamins Kit

~98% (Components, TLC)



PHYTOMLS

Phytochemical Metabolite Library Of Standards

Supplied by IROA Technologies



BACSMLS

Bile Acid/Carnitine/Sterol Metabolite Library of Standards

Supplied by IROA Technologies



SMB00968

Steroid Standard Mixture

suitable for mass spectrometry (MS)



CBA

Bile acids, conjugated



FAMLS

Fatty Acid Metabolite Library of Standards

Supplied by IROA Technologies



OAMLS

Organic Acid Metabolite Library of Standards

Supplied by IROA Technologies



AAPMLS

Amino Acid Peptide Metabolite Library Of Standards

Supplied by IROA Technologies



WORKFLOW

IROA TruQuant Yeast Extract Workflow Kit

Supplied by IROA Technologies



LSMLSINT

Large Scale Metabolite Library (International)

Supplied by IROA Technologies



MSMLS02

MSMLS™ Plate 2 (Water Soluble)

Supplied by IROA Technologies



MSMLS01

MSMLS™ Plate 1 (Water Soluble)

Supplied by IROA Technologies



GUTMLS01

Microbiome Metabolite Library Of Standards Plate 1 (Ethanol And Methanol Soluble)

Supplied by IROA Technologies



MSMLS03

MSMLS™ Plate 3 (Water Soluble)

Supplied by IROA Technologies



MSMLS06

MSMLS™ Plate 6 (Lipophilic)

Supplied by IROA Technologies



LSMLS01

LSMLS™ Plate 1 (Water Soluble)

Supplied by IROA Technologies

PHYTOMLS02

Phytochemical Metabolite Library Of Standards Plate 2 (Ethanol Soluble)

Supplied by IROA Technologies



PHYTOMLS01

Phytochemical Metabolite Library Of Standards Plate 1 (Ethanol Soluble)

Supplied by IROA Technologies



GUTMLS02

Microbiome Metabolite Library Of Standards Plate 2 (Water Soluble)

Supplied by IROA Technologies



MSMLS04

MSMLS™ Plate 4 (Water Soluble)

Supplied by IROA Technologies



ML0014

Alanine Metabolite Library



PHYTOMLS04

Phytochemical Metabolite Library Of Standards Plate 4 (Water And Methanol Soluble)

Supplied by IROA Technologies



MSMLS07

MSMLS™ Plate 7 (Lipophilic)

Supplied by IROA Technologies



MSMLS05

MSMLS™ Plate 5 (Water Soluble)

Supplied by IROA Technologies



PHYTOMLS03

Phytochemical Metabolite Library Of Standards Plate 3 (Water Soluble)

Supplied by IROA Technologies



AAPMLS01

Amino Acid Peptide Metabolite Library Of Standards Plate 1 (Water Soluble)

Supplied by IROA Technologies



LSMLS02

LSMLS™ Plate 2 (Water Soluble)

Supplied by IROA Technologies



LSMLS05

LSMLS™ Plate 5 (Water Soluble)

Supplied by IROA Technologies



AAPMLS02

Amino Acid Peptide Metabolite Library Of Standards Plate 2 (Water Soluble)

Supplied by IROA Technologies



LSMLS07

LSMLS™ Plate 7 (Lipophilic)

Supplied by IROA Technologies



LSMLS04

LSMLS™ Plate 4 (Water Soluble)

Supplied by IROA Technologies



LSMLS03

LSMLS™ Plate 3 (Water Soluble)

Supplied by IROA Technologies

Vitamins



Vitamins are organic compounds essential for the cell function and growth of living organisms. Most vitamins cannot be synthesized by the body and for this reason it is important to obtain them from food and/or supplements. The role of vitamins is continuously being investigated in nutrition/food science research, metabolism research, microbiome research, agricultural science and disease research to better understand how vitamins affect cell growth, cell regeneration, diseases, and overall health. Moreover, vitamins are widely used as supplements in cell culture media as they are key substrates for the growth and development of cells.

The 13 essential fat-soluble and water-soluble vitamins are: Vitamins A, C, D, E, K, B1 (thiamine), B2 (riboflavin), B3 (niacin), B5 (Pantothenic acid), B7 (Biotin), B6, B12 and Folate (Folic acid and B9). Our compounds can be used as media supplements for the cultivation of aerobic and anaerobic microorganisms to improve the viability of propagating cells and for selective isolation and cultivation of microorganisms.

We offer a broad portfolio of vitamin research products, mixtures and kits. Our products are available with high purity to ensure consistency, reliability and quality in your life science research. Moreover, we offer a range of sizes and weights in state-of-the-art packaging designed to minimize compound degradation and ensure optimal shelf-life.

VITAMINS FOR CELL CULTURE

Cell culture media are often supplemented with FBS, or fetal bovine serum, a critical source of vitamins for growing cells. Several media formulations are also enriched with specific vitamins that make them more widely suited for an enhanced range of cell lines. B group vitamins are among those necessary for cell proliferation. Some media are also formulated with higher levels of vitamins A and E. Other vitamins frequently found in media formulations include biotin, riboflavin, and thiamine.

B9031

(-)-Bilobalide from *Ginkgo biloba* leaves

≥93% (HPLC)



R4500

(-)-Riboflavin

from *Eremothecium ashbyii*, ≥98%



R9504

(-)-Riboflavin

BioReagent, suitable for cell culture, suitable for insect cell culture, ≥98%



R7649

(-)-Riboflavin

meets USP testing specifications



T3634

(+)-α-Tocopherol

from vegetable oil, Type V, ~1000 IU/g



T1539

(+)-α-Tocopherol

Type VI, from vegetable oil, liquid (≥0.88M based on potency, density and molecular wt.), BioReagent, suitable for insect cell culture, ≥1000 IU/g



T3001

(+)-α-Tocopherol acetate

oil or semi-solid, ~1360 IU/g



T1157

(+)-α-Tocopherol acetate

BioReagent, suitable for insect cell culture, ~1360 IU/g



H1759

(+)-Biotin N-hydroxysuccinimide ester

≥98% (HPLC), powder



T2028

(+)-δ-Tocopherol

≥90%



T1782

(+)-γ-Tocopherol

≥96% (HPLC)



94417

(+)-Magnesium L-ascorbate

≥90% (T)



A4034

(+)-Sodium L-ascorbate

powder, BioReagent, suitable for cell culture



A7631

(+)-Sodium L-ascorbate

crystalline, ≥98%



11140

(+)-Sodium L-ascorbate

BioXtra, ≥99.0% (NT)



V900326

(+)-Sodium L-ascorbate

Vetec™, reagent grade, 98%



90669

(±)-α-Tocopherol

tested according to Ph. Eur.



T3251

(±)-α-Tocopherol

synthetic, ≥96% (HPLC)



T5134

(±)-α-Tocopherol nicotinate



T2020

(±)-α-Tocopherol phosphate disodium salt

water-soluble α-tocopherol analog

C1788

(±)-Catechin hydrate



17943

(24R)-24,25-Dihydroxyvitamin D₃

≥98% (vitamin + pre-vitamin, HPLC)



16702

(R)-Pantetheine

≥95.0% (HPLC)



R3255

13-cis-Retinoic acid

≥98% (HPLC)



17946

1α-Hydroxyvitamin D₃

≥97.0% (HPLC)



17944

1 α ,25-Dihydroxyvitamin D₂

≥97.0% (sum of vitamin and previtamin, HPLC)



17936

1 α ,25-Dihydroxyvitamin D₃

≥97.0% (HPLC)



D1530

1 α ,25-Dihydroxyvitamin D₃

≥99% (HPLC)



SMB00390

2-O- α -D-Glucopyranosyl-L-ascorbic Acid

≥98% (HPLC)



49752

2-Phospho-L-ascorbic acid trisodium salt

≥95.0% (HPLC)



H4014

25-Hydroxycholecalciferol

≥98% (HPLC)



17937

25-Hydroxyvitamin D₂

≥95.0% (HPLC)



17938

25-Hydroxyvitamin D₃ monohydrate

≥99.0% (HPLC)



D1393

4-(N-[2,4-Diamino-6-pteridinylmethyl]amino)benzoic acid sodium salt

≥95% (TLC)



B2517

6-Biopterin

≥97%



76183

6-O-Palmitoyl-L-ascorbic acid

BioXtra, ≥99.0% (RT)



30800

7-Dehydrocholesterol

≥95.0% (HPLC)



R5754

9-cis-Retinal

vitamin A analog



R4643

9-cis-Retinoic acid

≥98% (HPLC)



258024

α-Tocopherol

≥95.5%

A7856

Acipimox

≥99% (TLC)



A2786

Adenine

BioReagent, suitable for cell culture



A5665

Adenine

BioReagent, suitable for plant cell culture, ≥99%



A8626

Adenine

≥99%



R2500

all trans-Retinal

powder, ≥98%



A7687

Aloe-emodin

≥95% (HPLC)



A1968

Ascorbic acid 6-palmitate

meets USP testing specifications



N7381

β-Nicotinamide adenine dinucleotide hydrate

Grade AA-1



N1511

β -Nicotinamide adenine dinucleotide hydrate

≥99%



V900418

Biotin

Vetec™, reagent grade, ≥99%



B4501

Biotin

≥99% (HPLC), lyophilized powder



14400

Biotin

≥99.0% (T)



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%



B5768

Biotin 4-amidobenzoic acid sodium salt

≥95%



B1267

Biotin-maleimide

≥95% (TLC), powder



B2643

Biotinamidohexanoic acid N-hydroxysuccinimide ester

≥98% (TLC), powder



B6891

BME Vitamins 100x solution

BioReagent, sterile-filtered, suitable for cell culture



C1305

Cafestol acetate

≥98%

C8731

Calcium pantothenate

meets USP testing specifications, monograph mol wt. 476.53 (C₁₈H₃₂CaN₂O₁₀)



C1357

Cholecalciferol

meets USP testing specifications



C9756

Cholecalciferol

≥98% (HPLC)



C9774

Cholecalciferol

analytical standard



26978

Choline chloride

BioUltra, ≥99.0% (AT)



C7527

Choline chloride

BioReagent, suitable for cell culture, suitable for insect cell culture, ≥98%



C1879

Choline chloride

≥98%



C7017

Choline chloride

≥99%



C0884

Coenzyme B₁₂

≥97.0%

- C3607
Cyanocobalamin
meets USP testing specifications
- 43107
Cyanocobalamin
tested according to Ph. Eur.
- 57668
D- α -Tocopherol polyethylene glycol 1000 succinate
BioXtra, water soluble vitamin E conjugate
- 95255
D- α -Tocopherol succinate
BioXtra, $\geq 98.0\%$ (HPLC)
- T3126
D- α -Tocopherol succinate
semisynthetic, 1210 IU/g
- T0452
D- α -Tocotrienol
from rice, $\geq 75\%$ (GC)
- T0577
D- δ -Tocotrienol
from rice, $\geq 65\%$ (GC)
- 76200
D-Panthenol
 $\geq 98.0\%$ (NT)
- P5155
D-Pantothenic acid hemicalcium salt
BioReagent, suitable for cell culture, suitable for insect cell culture, suitable for plant cell culture
- 21210
D-Pantothenic acid hemicalcium salt
 $\geq 98.0\%$

2031
D-(+)-Biotin

D8132
Dehydro-L-(+)-ascorbic acid dimer
≥80% (enzymatic)

C3021
Dicyanocobinamide
≥93%

D7006
Dihydrofolic acid
≥90%

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

T3376
DL- α -Tocopherol acetate
≥96% (HPLC)

95220
Ergocalciferol
≥98.0% (sum of enantiomers, HPLC)

E5750
Ergocalciferol
40,000,000 USP units/g

V900422
Folic acid
Vetec™, reagent grade, ≥97%

F7876
Folic acid
≥97%

F8798
Folic acid
meets USP testing specifications

F8758
Folic acid

BioReagent, suitable for cell culture, suitable for insect cell culture, suitable for plant cell culture, ≥97%



47612

Folinic acid calcium salt hydrate

BioXtra, ≥99.0% (HPLC)



282200

Galangin

autophagy inducing flavonoid



G1019

Gamborg's Vitamin Solution

1000 ×, liquid, suitable for plant cell culture



H8017

Hydroxocobalamin acetate

vitamin B₁₂ analog



33034

L-Ascorbic acid

puriss. p.a., ACS reagent, reag. ISO, Ph. Eur., 99.7-100.5% (oxidimetric)



95210

L-Ascorbic acid

puriss. p.a., ≥99.0% (RT)



A92902

L-Ascorbic acid

99%



255564

L-Ascorbic acid

ACS reagent, ≥99%



795437

L-Ascorbic acid

anhydrous, free-flowing, Redi-Dri™, ACS reagent, ≥99%

V900134

L-Ascorbic acid

Vetec™, reagent grade, 99%



95209

L-Ascorbic acid

BioUltra, ≥99.5% (RT)



95212

L-Ascorbic acid

tested according to Ph. Eur.



A2218

L-Ascorbic acid

meets USP testing specifications



A0278

L-Ascorbic acid

reagent grade



A4544

L-Ascorbic acid

suitable for cell culture, suitable for plant cell culture, ≥98%



A4403

L-Ascorbic acid

powder, suitable for cell culture, γ-irradiated



A7506

L-Ascorbic acid

reagent grade, crystalline



A5960

L-Ascorbic acid

BioXtra, ≥99.0%, crystalline



A8960

L-Ascorbic acid 2-phosphate sesquimagnesium salt hydrate

≥95%



M6895

MEM Vitamin Solution (100×)

sterile-filtered, BioReagent, suitable for cell culture



M5625

Menadione

crystalline



M9429

Menadione

meets USP testing specifications



M2518

Menadione sodium bisulfite

BioReagent, suitable for cell culture, ≥95% (TLC)



80198

Methoxatin disodium salt

≥97.0% (HPLC)



72420

Methyl nicotinate

puriss., ≥99.0% (GC)



M59203

Methyl nicotinate

99%



M9756

Methylcobalamin

vitamin B₁₂ analog



M7150

Murashige and Skoog Vitamin Powder

1000 ×, powder, suitable for plant cell culture



14408

N-(+)-Biotinyl-4-aminobenzoic acid

≥98.0% (HPLC)

14407

N-(+)-Biotinyl-6-aminohexanoic acid

≥97.0% (HPLC)



N5535

Niacinamide

meets USP testing specifications



N0636

Nicotinamide

BioReagent, suitable for cell culture, suitable for insect cell culture



N3376

Nicotinamide

≥98% (HPLC), powder



72345

Nicotinamide

≥98.5% (HPLC)



72340

Nicotinamide

≥99.5% (HPLC)



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



N7764

Nicotinic acid mononucleotide



N4751

Nicotinuric acid



A6706

O-Acetyl-L-carnitine hydrochloride

≥99% (titration), powder



O4000

Oxythiamine chloride hydrochloride

≥95% (HPLC)



P7262

Plumbagin from *Plumbago indica*



82553

Pterine-6-carboxylic acid

≥98.0% (HPLC)



P9255

Pyridoxal 5'-phosphate hydrate

≥98%



P3657

Pyridoxal 5'-phosphate hydrate

powder, BioReagent, suitable for cell culture



82870

Pyridoxal 5'-phosphate monohydrate

≥97.0% (NT)



P6155

Pyridoxal hydrochloride

BioReagent, suitable for cell culture, suitable for insect cell culture

P6155

Pyridoxal hydrochloride

BioReagent, suitable for cell culture, suitable for insect cell culture



271748

Pyridoxal hydrochloride

99%



93759

Pyridoxal hydrochloride

≥99.5% (T)



P9158

Pyridoxamine dihydrochloride

BioReagent, suitable for cell culture



82890

Pyridoxamine-5'-phosphate

≥98.0% (HPLC)



P5669

Pyridoxine

≥98%



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)



D7783

Pyroloquinoline quinone

≥95.0% (HPLC)



R2625

Retinoic acid

≥98% (HPLC), powder



H7779

Retinoic acid p-hydroxyanilide

≥95%



R7632

Retinol

synthetic, ≥95% (HPLC), (Powder or Powder with Lumps)



95144

Retinol

BioXtra, ≥97.5% (HPLC), ~3100 U/mg



17772

Retinol

≥95.0% (HPLC), ~2700 U/mg



R7882

Retinyl acetate

solid or viscous liquid, BioReagent, synthetic, suitable for cell culture



R3250

Retinyl acetate

synthetic, matrix dispersion, 475,000-650,000 USP units/g



R4632

Retinyl acetate

synthetic, crystalline solid or supercooled liquid



R0635

Retinyl Acetate-Water Soluble

BioReagent, suitable for cell culture



R1512

Retinyl palmitate

potency: $\geq 1,700,000$ USP units per g

R3375

Retinyl palmitate

Type IV, $\sim 1,800,000$ USP units/g, oil



87809

Retinyl propionate

$\geq 98.0\%$ (sum of isomers, HPLC), ~ 2500 U/mg



77623

Riboflavin 5'-monophosphate sodium salt

tested according to Ph. Eur.



R7774

Riboflavin 5'-phosphate sodium salt hydrate

meets USP testing specifications



R7256

RPMI 1640 Vitamins Solution (100 \times)

liquid, sterile-filtered, BioReagent, suitable for cell culture



A7007

S-(5'-Adenosyl)-L-methionine chloride dihydrochloride

$\geq 75\%$



A2408

S-(5'-Adenosyl)-L-methionine p-toluenesulfonate salt

$\geq 80\%$ (HPLC), $\geq 80\%$ (spectrophotometric assay)



B9636

S-Benzoylthiamine O-monophosphate



S3766

Schenk and Hildebrandt Vitamin

100 \times , liquid, suitable for plant cell culture



T1270

Thiamine hydrochloride

BioReagent, suitable for cell culture, suitable for insect cell culture, suitable for plant cell culture



T4562

Thiamine hydrochloride

meets USP testing specifications



T4625

Thiamine hydrochloride

reagent grade, ≥99% (HPLC)



04573

Thiamine hydrochloride

tested according to Ph. Eur.



SMB00294

Thiamine mononitrate

≥98% (HPLC)



T8637

Thiamine monophosphate chloride dihydrate



75543

tris-NTA Biotin trifluoroacetate salt solution

≥80.0% (HPLC)



V1007

Vanderzant vitamin mixture for insects

Animal-component free, BioReagent, suitable for insect cell culture



V2876

Vitamin B₁₂

≥98%



V6629

Vitamin B₁₂

BioReagent, suitable for cell culture, suitable for insect cell culture, suitable for plant cell culture, ≥98%



V900445

Vitamin B₁₂

Vetec™, reagent grade, ≥98%

95200

Vitamin B_{12a} hydrochloride

≥96% (UV), ≥96% (HPLC)



V3501

Vitamin K₁

viscous liquid



95271

Vitamin K₁

BioXtra, ≥99.0% (sum of isomers, HPLC), mixture of isomers



19697

Vitamin K₁ 2,3-epoxide

≥98.0% (HPLC)



V9378

Vitamin K₂

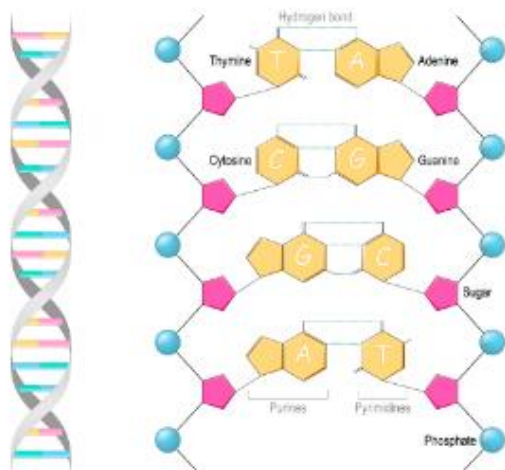


SMB00580

Vitamin K₄

≥98% (HPLC)

Nucleosides and Nucleotides



Nucleosides and nucleotides and their derivatives are biologically ubiquitous substances that participate in nearly all biochemical processes. They form the monomeric units of nucleic acids and thereby play central roles in both the expression and storage of genetic information.

Nucleosides are glycosylamines obtained by chemical or enzymatic decomposition of nucleic acids and contain two components: a **five-carbon sugar (ribose or 2' deoxyribose)** and a **nitrogen base**. The nitrogenous bases are planar, aromatic, heterocyclic molecules. For the most part, are derivatives of purine or pyrimidine. The major **purine** components of nucleic acids are **adenine (A)** and **guanine (G)** residues and the major pyrimidine residues are **cytosine (C)**, **Uracil (U)** (which mainly occurs in RNA), and **thymine**¹. In double-helical DNAs and RNAs, the base compositions obey Chargaff's rules: $A=T(U)$ and $G=C$ ¹. Examples of nucleosides include adenosine, guanosine, cytidine, uridine, and deoxythymidine. They function as signaling molecules and are precursors for nucleotides needed for DNA and RNA synthesis. Nucleosides also play a vital role in medicine and molecular biology and are used as antiviral or anticancer agents¹.

As the building block of RNA and DNA, nucleotides are organic molecules composed of three components: a five-carbon sugar, a nitrogen base and, one or more phosphate groups. The nitrogen bases in the great majority of nucleotides are the purines (Adenine + Guanine) and the pyrimidines (Cytosine, either Thymine in DNA or Uracil in RNA). Examples of nucleotides include Adenosine monophosphate (AMP), Guanosine monophosphate (GMP), Cytidine monophosphate (CMP), Uridine monophosphate (UMP), and Deoxythymidine monophosphate (dTMP)¹. Nucleotides are not only the basic unit of genetic material in all living things, but they also play a role in the energy, metabolism, and signaling in cells. In addition to their biological functions, nucleotides, and their derivatives play an important role in medical applications. By using the synthetic purine and pyrimidine analogs that contain halogens, thiols, or additional nitrogen atoms in the chemotherapy of cancer and AIDS, and immune suppressors during organ transplantation².

CELL BIOLOGY AND DRUG DISCOVERY

We offer a large selection of natural and synthetic nucleosides, nucleotides, oligonucleotides, and their analogs for a multitude of research, diagnostic and manufacturing applications in cell biology and drug discovery. We're dedicated to

supporting your scientific advancement with our innovative and reliable bioreagents available in mg to kg batch sizes to precisely meet your needs.

Breakthroughs feel closer than ever with our unparalleled portfolio:

Adenosine-derived nucleosides and nucleotides

Metabolic nucleotides

Cancer and proliferation biomarker nucleosides

Non-hydrolyzable nucleotide analogs
D7400

2'-Deoxyadenosine monohydrate
≥99%



D3897

2'-Deoxycytidine
≥99% (HPLC)



D0901

2'-Deoxyguanosine monohydrate
powder, BioReagent, suitable for cell culture, 99-100%



D7145

2'-Deoxyguanosine monohydrate
99-100%



D5412

2'-Deoxyuridine
≥98.5%



D0162

2',3'-Dideoxyinosine
≥98% (HPLC)



M072000

2-Cyanoethyl N,N-diisopropylchlorophosphoramidite



A5251

3-Acetylpyridine adenine dinucleotide
≥85%



I7018

3-Isobutyl-1-methylxanthine
BioUltra, ≥99%

Coenzymes and essential cofactors

Cell culture, cell-arrest, cell inhibitor nucleosides

Protein purification nucleosides

Molecular & HPLC standards



M9281

3-Methyladenine

autophagy inhibitor



T4509

4-Thiouridine

≥98%



D5011

5'-Deoxy-5'-(methylthio)adenosine



B5002

5-Bromo-2'-deoxyuridine

≥99% (HPLC)



B9285

5-Bromo-2'-deoxyuridine

BioUltra, ≥99%



C6891

5-Chloro-2'-deoxyuridine

thymidine analog



I7125

5-Iodo-2'-deoxyuridine

≥99% (HPLC)



M6751

5-Methylcytosine hydrochloride

≥99%



D2629

6-(Dimethylamino)purine

≥98%



M041180

6-Fluorescein Phosphoramidite

configured for PerkinElmer, configured for Polygen



M041130

6-Fluorescein Phosphoramidite

configured for ABI

M043180

6-Hexachloro-Fluorescein Phosphoramidite

configured for PerkinElmer, configured for Polygen



M043130

6-Hexachloro-Fluorescein Phosphoramidite

configured for ABI



A4882

6-Thioguanine

≥98%



M6133

7-Methylguanosine 5'-triphosphate sodium salt

≥85% (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



A3159

Adenine hemisulfate salt

powder, BioReagent, suitable for cell culture



A9126

Adenine hemisulfate salt

≥99%



A8751

Adenine hydrochloride hydrate

≥99%



A9272

Adenosine 3'-monophosphate

from yeast



A1651

Adenosine 3'-phosphate 5'-phosphosulfate lithium salt hydrate

≥60%



A5763

Adenosine 3',5'-diphosphate disodium salt

≥96%



A1388

Adenosine 5'-[γ-thio]triphosphate tetralithium salt

≥75% (HPLC), powder



M3763

Adenosine 5'-(α,β-methylene)diphosphate

ADP analog



A2647

Adenosine 5'-(β,γ-imido)triphosphate lithium salt hydrate

≥93% (HPLC), powder



01905

Adenosine 5'-diphosphate

≥95% (HPLC)



01897

Adenosine 5'-diphosphate disodium salt

≥90%



A2754

Adenosine 5'-diphosphate sodium salt

bacterial, ≥95% (HPLC)



A0752

Adenosine 5'-diphosphoribose sodium salt

≥93%

01930

Adenosine 5'-monophosphate disodium salt

≥99.0% (HPLC)



A2252

Adenosine 5'-monophosphate monohydrate

from yeast, ≥97%



A1752

Adenosine 5'-monophosphate sodium salt

from yeast, ≥99%

- A1852
Adenosine 5'-triphosphate (ATP) disodium salt hydrate
vial of 30 mg
- A9062
Adenosine 5'-triphosphate di(tris) salt hydrate
≥95%
- A8937
Adenosine 5'-triphosphate dipotassium salt hydrate
from microbial, ≥92% (HPLC)
- A3377
Adenosine 5'-triphosphate disodium salt hydrate
Grade II, ≥97% (HPLC), crystalline, from microbial
- A9187
Adenosine 5'-triphosphate magnesium salt
≥95%, bacterial
- A0627
Adenosine-5'-diphosphoglucose disodium salt
≥93%
- A0410
Aminoallyl-dUTP sodium salt
≥85%, lyophilized powder
- N8285
β-Nicotinamide adenine dinucleotide
pkg of 10 mg (per vial)
- N7785
β-Nicotinamide adenine dinucleotide 2'-phosphate reduced tetrasodium salt
vial of 10 mg, ~95%
- N6505
β-Nicotinamide adenine dinucleotide 2'-phosphate reduced tetrasodium salt hydrate
≥95% (HPLC)

N7505
β-Nicotinamide adenine dinucleotide 2'-phosphate reduced tetrasodium salt hydrate
≥97% (HPLC)

N1630
β-Nicotinamide adenine dinucleotide 2'-phosphate reduced tetrasodium salt hydrate
≥93% (HPLC)

N1511
β-Nicotinamide adenine dinucleotide hydrate
≥99%

N6522
β-Nicotinamide adenine dinucleotide hydrate
BioUltra, ≥98%, from yeast

N7381
β-Nicotinamide adenine dinucleotide hydrate
Grade AA-1

N7132
β-Nicotinamide adenine dinucleotide lithium salt from *Saccharomyces cerevisiae*
≥95%

N5755
β-Nicotinamide adenine dinucleotide phosphate hydrate

N0505
β-Nicotinamide adenine dinucleotide phosphate sodium salt hydrate

N5130
β-Nicotinamide adenine dinucleotide phosphate, reduced tetra(cyclohexylammonium) salt
≥93%

N0632
β-Nicotinamide adenine dinucleotide sodium salt

N4505
β-Nicotinamide adenine dinucleotide, reduced dipotassium salt

N0786
β-Nicotinamide adenine dinucleotide, reduced disodium salt

~98%, pkg of 1 mg (per vial)



N8129

β -Nicotinamide adenine dinucleotide, reduced disodium salt hydrate

≥97% (HPLC)



M042080

Biotin Phosphoramidite

configured for PerkinElmer, configured for Polygen



86959

Clara-Diastase

mixture of enzymes, powder, ≥35 U/mg



C3144

Coenzyme A sodium salt hydrate

cofactor for acyl transfer



C3019

Coenzyme A trilithium salt

≥93%



S7822-M

CpGenome Universal Unmethylated DNA

Kit containing two separate unmethylated genomic DNA controls for gene methylation studies and methylation-specific PCR (MSP).



M047030

Cyanine 3 Phosphoramidite

configured for ABI



M046030

Cyanine 5 Phosphoramidite

configured for ABI ÄKTA[®] and OligoPilot[®]



C7344

Cyclic adenosine diphosphate-ribose

≥90% (HPLC), lyophilized powder



C4654

Cytidine

BioReagent, suitable for cell culture, powder, ≥99%



C9630

Cytidine 2':3'-cyclic monophosphate monosodium salt

≥95% (HPLC)



C1131

Cytidine 5'-monophosphate

Sigma Grade, ≥99% (HPLC), synthetic, powder



C1006

Cytidine 5'-monophosphate disodium salt

Sigma Grade, ≥99%, crystalline



30320

Cytidine 5'-triphosphate disodium salt hydrate

≥90.0% (HPLC)



C8271

Cytidine-5'-monophospho-N-acetylneuraminic acid sodium salt

≥85% (HPLC)

C3506

Cytosine

≥99%



C6645

Cytosine β-D-arabinofuranoside hydrochloride

crystalline



D4522

Deoxyribonucleic acid from calf thymus

Type XV, Activated, lyophilized powder



D3159

Deoxyribonucleic acid from herring sperm

not suitable for substrate for typical DNase assays ("crude oligonucleotides", <50 bp), degraded



D3035

Deoxyribonucleic acid from human placenta

buffered aqueous solution, sexed, female



D1501

Deoxyribonucleic acid sodium salt from calf thymus

Type I, fibers



D2001

Deoxyribonucleic acid sodium salt from *Escherichia coli* strain B

Type VIII



D4889

Deoxyribonucleic acid sodium salt from *Escherichia coli* strain B

Genomic, unsheared



D6898

Deoxyribonucleic acid sodium salt from herring testes

Type XIV



D1626

Deoxyribonucleic acid sodium salt from salmon testes



31149

Deoxyribonucleic acid, low molecular weight from salmon sperm



D7656

Deoxyribonucleic acid, single stranded from salmon testes

For hybridization



D9156

Deoxyribonucleic acid, single stranded from salmon testes

For hybridization



D7628

Dihydrouracil

powder



A211200

DMT-2'Fluoro-dA(bz) Phosphoramidite



A211250

DMT-2'Fluoro-dA(bz) Phosphoramidite

configured for (ÄKTA[®] and OligoPilot[®])



C213250

DMT-2'Fluoro-dC(ac) Phosphoramidite

configured for (ÄKTA[®] and OligoPilot[®])



G211200

DMT-2'Fluoro-dG(ib) Phosphoramidite



G211250

DMT-2'Fluoro-dG(ib) Phosphoramidite

configured for (ÄKTA[®] and OligoPilot[®])



U211200

DMT-2'Fluoro-dU Phosphoramidite

≥99.0% (reversed phase HPLC)

U211250

DMT-2'Fluoro-dU Phosphoramidite

configured for (ÄKTA® and OligoPilot®)



A211100

DMT-2'O-Methyl-rA(bz) Phosphoramidite



A211150

DMT-2'O-Methyl-rA(bz) Phosphoramidite

configured for (ÄKTA® and OligoPilot®), configured for ABI



A211140

DMT-2'O-Methyl-rA(bz) Phosphoramidite

configured for MerMade



C213140

DMT-2'O-Methyl-rC(ac) Phosphoramidite

configured for MerMade



C213150

DMT-2'O-Methyl-rC(ac) Phosphoramidite

configured for ABI



G211100

DMT-2'O-Methyl-rG(ib) Phosphoramidite



G211140

DMT-2'O-Methyl-rG(ib) Phosphoramidite

configured for MerMade



G211150

DMT-2'O-Methyl-rG(ib) Phosphoramidite

configured for (ÄKTA® and OligoPilot®)



U211150

DMT-2'O-Methyl-rU Phosphoramidite

configured for ÄKTA® and OligoPilot®



U211140

DMT-2'O-Methyl-rU Phosphoramidite

configured for MerMade



A211850

DMT-2'O-MOE-rA(bz) Phosphoramidite



G211850

DMT-2'O-MOE-rG(ib) Phosphoramidite



C211850

DMT-2'O-MOE-rMeC(bz) Phosphoramidite



T211850

DMT-2'O-MOE-rMeU Phosphoramidite



A211050

DMT-2'O-TBDMS-rA(bz) Phosphoramidite

configured for (ÄKTA® and OligoPilot®)



A211040

DMT-2'O-TBDMS-rA(bz) Phosphoramidite

configured for MerMade



A211000

DMT-2'O-TBDMS-rA(bz) Phosphoramidite



C213040

DMT-2'O-TBDMS-rC(ac) Phosphoramidite

configured for MerMade



C213000

DMT-2'O-TBDMS-rC(ac) Phosphoramidite

C213040

DMT-2'O-TBDMS-rC(ac) Phosphoramidite

configured for MerMade



G211000

DMT-2'O-TBDMS-rG(ib) Phosphoramidite



G211040

DMT-2'O-TBDMS-rG(ib) Phosphoramidite

configured for MerMade



G211050

DMT-2'O-TBDMS-rG(ib) Phosphoramidite

configured for (ÄKTA[®] and OligoPilot[®])



U211000

DMT-2'O-TBDMS-rU Phosphoramidite



U211050

DMT-2'O-TBDMS-rU Phosphoramidite

configured for ÄKTA[®] and OligoPilot[®]



U211630

DMT-2'O-TC-rU Phosphoramidite

configured for ABI



A111000

DMT-dA(bz) Phosphoramidite



A111030

DMT-dA(bz) Phosphoramidite

configured for ABI



A111040

DMT-dA(bz) Phosphoramidite

configured for MerMade



A111080

DMT-dA(bz) Phosphoramidite

configured for PerkinElmer, configured for Polygen



A111050

DMT-dA(bz) Phosphoramidite

configured for ÄKTA® and OligoPilot®



A112000

DMT-dA(tac) Phosphoramidite



C113000

DMT-dC(ac) Phosphoramidite

≥99.0% (reversed phase HPLC)



C113040

DMT-dC(ac) Phosphoramidite

configured for MerMade



C113030

DMT-dC(ac) Phosphoramidite

configured for ABI



C111040

DMT-dC(bz) Phosphoramidite

configured for MerMade



C111000

DMT-dC(bz) Phosphoramidite



C112000

DMT-dC(tac) Phosphoramidite



G115000

DMT-dG(dmf) Phosphoramidite

≥99.0% (reversed phase HPLC)

G115000

DMT-dG(dmf) Phosphoramidite

≥99.0% (reversed phase HPLC)



G11100P

DMT-dG(ib) Pharmadite®



G111040

DMT-dG(ib) Phosphoramidite

configured for MerMade



G111000

DMT-dG(ib) Phosphoramidite



G112080

DMT-dG(tac) Phosphoramidite

configured for PerkinElmer, configured for Polygen



G112000

DMT-dG(tac) Phosphoramidite



T11100P

DMT-dT Pharmadite®



T111050

DMT-dT Phosphoramidite

configured for ÄKTA® and OligoPilot®



T111040

DMT-dT Phosphoramidite

configured for MerMade



T111080

DMT-dT Phosphoramidite

configured for PerkinElmer, configured for Polygen



T111000

DMT-dT Phosphoramidite



81619

Ectoine

≥95.0% (HPLC)



F6625

Flavin adenine dinucleotide disodium salt hydrate

≥95% (HPLC), powder



F8423

Fluorouracil

meets USP testing specifications



50950

Guanidine hydrochloride

≥98%



G3272

Guanidine hydrochloride

for molecular biology, ≥99%



G4505

Guanidine hydrochloride

≥99% (titration), organic base and chaotropic agent



G9284

Guanidine hydrochloride solution

Colorless liquid, 7.8 - 8.3 M, pH- 4.5 - 5.5



G6639

Guanidine thiocyanate

≥97% (titration)



G9277

Guanidine thiocyanate

for molecular biology, ≥99%

G6752

Guanosine

≥98%



G0635

Guanosine 5'-[β,γ-imido]triphosphate trisodium salt hydrate

≥85% (HPLC), powder



G7127

Guanosine 5'-diphosphate sodium salt

Type I, ≥96% (HPLC)



G8377

Guanosine 5'-monophosphate disodium salt hydrate

from yeast, ≥99%



51120

Guanosine 5'-triphosphate sodium salt hydrate

≥90% (HPLC)



G9002

Guanosine 5'-triphosphate tris salt

≥93% (HPLC), powder



H9377

Hypoxanthine

≥99.0%



I4125

Inosine

≥99% (HPLC)



I4625

Inosine 5'-monophosphate disodium salt hydrate

from yeast, Grade III, ≥98% (HPLC)



M4263

Malonyl coenzyme A lithium salt

≥90% (HPLC)



69239

Mouse Genomic DNA

High molecular weight, high purity DNA for any application



B5258

N⁶-Benzoyladenine

≥99%



D0627

N⁶,2'-O-Dibutyryladenine 3',5'-cyclic monophosphate sodium salt

≥96% (HPLC), powder



M061040

Phosphate-ON Phosphoramidite

configured for MerMade



P4903

poly(C)



69238

Rat Genomic DNA

High molecular weight, high purity DNA for any application



F6750

Riboflavin 5'-monophosphate sodium salt hydrate

73-79% (fluorimetric)



F2253

Riboflavin 5'-monophosphate sodium salt hydrate

synthetic, ≥70% (HPLC)



R6750

Ribonucleic acid from baker's yeast (*S. cerevisiae*)



R6625

Ribonucleic acid from torula yeast

Type VI

R8759

Ribonucleic acid, transfer from baker's yeast (*S. cerevisiae*)

Type X-SA, lyophilized powder



R4752

Ribonucleic acid, transfer from bovine liver

Type XI, lyophilized powder



R1753

Ribonucleic acid, transfer from *Escherichia coli*

Type XX, Strain W, lyophilized powder



M076000

Sulfur 42



T9250

Thymidine

≥99%



T1895

Thymidine

powder, BioReagent, suitable for cell culture



89270

Thymidine

≥99.0% (HPLC)



T7004

Thymidine 5'-monophosphate disodium salt hydrate

≥99%



T0376

Thymine

≥99%



Z0375

trans-Zeatin-riboside

~95%



T2255

Trifluorothymidine

≥99% (HPLC)



U0750

Uracil

≥99.0%



U2625

Uric acid

≥99%, crystalline



U0881

Uric acid

BioXtra, ≥99% (HPLC)



U2875

Uric acid sodium salt



U3003

Uridine

powder, BioReagent, suitable for cell culture



U3750

Uridine

≥99%



94330

Uridine 5'-diphosphate disodium salt hydrate

≥96.0% (HPLC)



U5252

Uridine 5'-diphospho-N-acetylgalactosamine disodium salt

≥97%



U4375

Uridine 5'-diphospho-N-acetylglucosamine sodium salt

≥98%

U4500

Uridine 5'-diphosphogalactose disodium salt

≥97.0%



U5625

Uridine 5'-diphosphoglucuronic acid ammonium salt

98-100%



U6751

Uridine 5'-diphosphoglucuronic acid trisodium salt

98-100%



U1752

Uridine 5'-monophosphate

≥98%



U6375

Uridine 5'-monophosphate disodium salt

≥99%



94370

Uridine 5'-triphosphate trisodium salt dihydrate

≥80%



X7375

Xanthine

≥99%



X0626

Xanthine

≥99.5% (HPLC), purified by recrystallization



X3627

Xanthine sodium salt

suitable for cell culture, ≥99%

The right assay kit for your specific needs

We provide a comprehensive portfolio of assay kits for a broad range of applications in life science research, drug discovery and development, and environmental monitoring and testing.

- easy-to-use, precise, and highly reliable assays
- spectrophotometric and/or fluorometric detection methods
- also suitable for high-throughput analysis
- pre-tested for optimum quality to best serve your application needs

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Additional Areas of Specialization

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Sample Preparation

Kit #	Product
MAK227	Chloramphenicol Extraction Kit
MAK175	Cholesterol Extraction Kit
MAK341	Deproteinizing Sample Preparation Kit
MAK342	Deproteinizing Sample Preparation Kit II
MAK226	Enrofloxacin Extraction Kit
MAK372	Fatty Acid Extraction Kit for Pet Food
MAK338	Fatty Acid Extraction Kit, High Standard (450 ug/ml)



Oncology

Kit #	Product
MAK189	A-KG Dehydrogenase Activity Assay Kit
MAK199	Acetoacetate Colorimetric Assay Kit
MAK039	Acetyl-Coenzyme A Assay Kit
MAK446	Acid Phosphatase Assay Kit
MAK051	Aconitase Activity Assay Kit
MAK235	Adenylate Kinase Activity Assay Kit (Colorimetric/Fluorometric)
MAK400	Adenosine Deaminase Activity Assay Kit
MAK433	Adenosine Quantification Assay Kit
MAK040	Adipogenesis Kit
MAK313	Adipolysis Assay Kit
MAK133	ADP Assay Kit
MAK081	Adp colorimetric assay kit ii
MAK135	ADP/ATP Ratio Assay Kit
MAK436	AF Cholesterol Assay Kit
MAK082	Aldehyde Dehydrogenase Activity Colorimetric Assay Kit
MAK327	Aldehyde Dehydrogenase Inhibitor Screening Kit
MAK223	Aldolase Activity Colorimetric Assay Kit
MAK447	Alkaline Phosphatase Assay Kit
MAK054	Alpha-Ketoglutarate Assay Kit
MAK418	AMP Colorimetric Assay Kit
MAK112	Arginase Activity Assay Kit
MAK392	Arginase I (ARG1) Inhibitor Screening Kit (Colorimetric)
MAK430	Arylamine N-acetyltransferase Activity Assay Kit (Fluorometric)
MAK007	Asparaginase Activity Assay Kit
MAK190	ATP Assay Kit
MAK190	ATP Colorimetric/Fluorometric Assay Kit
MAK113	ATPase/GTPase Assay Kit
MAK138	Autophagy Assay Kit
MAK041	Beta-Hydroxybutyrate Assay Kit
MAK309	Bile Acid Assay Kit
MAK228	Calpain Activity Fluorometric Assay Kit
MAK457	Caspase-3 Assay Kit
MAK202	Cathepsin S Inhibitor Screening Kit
MAK383	Cathepsin D Assay Kit
MAK387	Cathepsin B Activity Assay Kit
MAK401	Cathepsin L Activity Assay Kit
MAK403	Cathepsin S Assay Kit
MAK404	Carbonic Anhydrase (CA) Activity Assay Kit (Colorimetric)

Kit #	Product
MAK174	Fatty Acid Extraction Kit
MAK224	Fatty Acid Methylation Kit Manufactured by Nacalai Tesque, Inc.
MAK225	Fatty Acid Methyl Ester Purification Kit Manufactured by Nacalai Tesque, Inc.
MAK339	Lipopolysaccharide (LPS) Isolation Kit
MAK405	Lysosome Purification Kit
MAK343	PEG Virus Precipitation Kit

Kit #	Product
MAK344	Cell Cycle Analysis Kit
MAK177	Ceruloplasmin Activity Colorimetric Kit
MAK043	Cholesterol Quantitation Kit
MAK325	Cholesterol Uptake Assay Kit
MAK130	Chromium Assay Kit
MAK057	Citrate Assay Kit
MAK333	Citrate Assay Kit
MAK193	Citrate Synthase Activity Assay Kit
MAK034	Coenzyme A Assay Kit
MAK322	Collagen Assay Kit
MAK293	Collagenase Activity Colorimetric Assay Kit
MAK162	Colorimetric Maleimide Assay Kit
MAK152	Colorimetric Sphingomyelinase Assay Kit
MAK426	c-Src Kinase Inhibitor Screening Kit
MAK320	D-2-Hydroxyglutarate (D2HG) Assay Kit
MAK397	DNase I Activity Assay Kit (Fluorometric)
MAK338	Fatty Acid Extraction Kit (High Standard)
MAK156	Fatty Acid Uptake Kit
MAK174	Fatty Acid Extraction Kit
MAK369	Ferric Reducing Antioxidant Power (FRAP) Assay Kit (Colorimetric)
MAK150	Fluorometric Intracellular pH Assay Kit
MAK142	Fluorometric Intracellular Ros Kit
MAK143	Fluorometric Intracellular Ros Kit
MAK144	Fluorometric Intracellular Ros Kit
MAK145	Fluorometric Intracellular Ros Kit
MAK154	Fluorometric Sphingomyelin Assay Kit
MAK155	Fluorometric Sphingomyelinase Assay Kit
MAK151	Fluorometric Thiol Assay Kit
MAK131	Formaldehyde Assay
MAK044	Free Fatty Acid Quantitation Kit
MAK020	Fructose-6-Phosphate Assay Kit
MAK060	Fumarate Assay Kit
MAK098	G1P Colorimetric Assay Kit
MAK015	G6PDH Activity Assay Kit
MAK277	GAPDH Activity Assay Kit
MAK099	GDH Activity Assay Kit
MAK083	Glucose Uptake Colorimetric Assay Kit
MAK084	Glucose Uptake Fluorometric Assay Kit
MAK021	Glucose-6-Phosphate Assay Kit


Oncology (continued)

Kit #	Product
MAK452	Glucose-6-Phosphate Dehydrogenase Inhibitor Screening Kit
MAK004	Glutamate Assay Kit
MAK170	Glutamate Oxidase Assay Kit
MAK440	Glutathione GSH/GSSG Assay Kit
MAK437	Glutathione Peroxidase Assay Kit
MAK453	Glutathione S-transferase Assay Kit
MAK117	Glycerol Assay Kit
MAK261	Glycine Assay Kit (Fluorometric)
MAK114	Glyoxalase I Activity Assay Kit
MAK417	Glycogen Phosphorylase Colorimetric Assay Kit
MAK439	Glycolysis Assay Kit
MAK176	Granzyme B Activity Assay Kit
MAK091	Hexokinase Colorimetric Assay Kit
MAK282	High Sensitivity Aldehyde Dehydrogenase Activity Fluorometric Assay Kit
MAK181	High Sensitivity Glucose Assay Kit
MAK210	Human Calpain 1 Inhibitor Screening Kit
MAK458	Hyaluronidase Inhibitor Screening Assay Kit
MAK357	Hydroxyproline Assay Kit (Perchlorate-Free)
MAK062	IDH Activity Assay Kit
MAK356	Indoleamine 2,3-Dioxygenase 1 (IDO1) Activity Assay Kit
MAK429	Inorganic Polyphosphate Assay Kit (Fluorometric)
MAK025	Iron Assay Kit
MAK134	Ketone Body Assay
MAK329	L-Lactate Assay Kit
MAK443	L-Lactate Assay Kit
MAK065	Lactate Assay Kit II
MAK064	Lactate Assay Kit
MAK066	Lactate Dehydrogenase Activity Assay Kit
MAK017	Lactose Assay Kit
MAK047	Lipase Activity Assay Kit II
MAK046	Lipase Activity Assay Kit
MAK085	Lipid Peroxidation (MDA) Assay Kit
MAK393	Lysozyme Inhibitor Screening Kit
MAK413	Lysophosphatidylcholine Assay Kit (Colorimetric/Fluorometric)
MAK431	Methionine Adenosyltransferase Activity Assay Kit (Colorimetric)
MAK160	Mitochondrial Membrane Potential Kit
MAK159	Mitochondrial Membrane Potential Kit
MAK147	Mitochondrion Membrane Potential Kit
MAK146	Mitochondrion Membrane Potential Kit
MAK212	MMP-1 Inhibitor Screening Kit
MAK291	MMP-3 Activity Fluorometric Assay Kit
MAK294	MMP-3 Inhibitor Screening Kit (Fluorometric)
MAK068	MPO Colorimetric Activity Assay Kit

Kit #	Product
MAK069	MPO Fluorometric Activity Assay Kit
MAK161	Multidrug Resistance Assay Kit
MAK283	Myeloperoxidase (MPO) Inhibitor Screening Kit (Fluorometric)
MAK460	NAD ⁺ /NADH Assay Kit
MAK037	NAD/NADH Quantitation Kit
MAK312	NADP/NADPH Assay Kit
MAK038	NADP/NADPH Quantitation Kit
MAK148	NIR Mitochondrion Membrane Potential Kit
MAK149	NIR Mitochondrion Membrane Potential Kit
MAK407	Nitric Oxide Synthase (NOS) Activity Assay Kit (Colorimetric)
MAK299	NNMT Inhibitor Screening Assay Kit
MAK070	Oxaloacetate Assay Kit
MAK183	PDH Activity Assay Kit
MAK102	PEP Colorimetric/Fluorometric Assay Kit
MAK093	PFK Activity Colorimetric Assay Kit
MAK365	Phenolic Compounds Assay Kit (Colorimetric)
MAK049	Phosphatidylcholine Assay Kit
MAK361	Phosphatidylethanolamine Assay Kit (Fluorometric)
MAK137	Phospholipase D Activity Assay Kit
MAK412	Phosphoglycerate Dehydrogenase (PHGDH) Activity Assay Kit (Colorimetric)
MAK424	Phosphoglycerate Mutase Activity Assay Kit (Colorimetric/Fluorometric)
MAK244	Plasmin Activity Assay Kit (Fluorometric)
MAK245	Plasmin Inhibitor Screening Kit (Fluorometric)
MAK461	pNPP Phosphatase Assay Kit
MAK172	Proteasome 20s Activity Assay Kit
MAK094	Protein Carbonyl Content Assay Kit
MAK071	Pyruvate Assay Kit
MAK332	Pyruvate Assay Kit
MAK072	Pyruvate Kinase Activity Assay Kit
MAK364	Reduced Glutathione (GSH) Assay Kit (Colorimetric)
MAK314	Sialic Acid Assay Kit
MAK276	Sulfatase Activity Assay Kit (Colorimetric)
MAK379	Superoxide Dismutase (SOD) Activity Kit
MAK409	Thioredoxin Reductase Kit
MAK187	Total Antioxidant Capacity Assay Kit
MAK349	Total Polyamine Assay Kit (Fluorometric)
MAK395	Tyrosinase Activity Assay Kit (Colorimetric)
MAK173	Universal Fluorometric Kinase Assay Kit
MAK220	Urokinase Inhibitor Screening Kit
MAK032	Zinc Assay Kit
MAK089	γ-Glutamyltransferase (GGT) Activity Colorimetric Assay Kit
MAK416	3' to 5' Exonuclease Activity Assay (Fluorometric)
MAK444	α-L-Fucosidase Assay Kit



Cardiology - Cardiovascular

Kit #	Product
MAK419	ACE1 Colorimetric Activity Assay Kit
MAK422	ACE1 Inhibitor Screening Kit (Colorimetric)
MAK435	Acetylcholine Assay Kit
MAK051	Aconitase Activity Assay Kit
MAK433	Adenosine Quantification Assay Kit
MAK235	Adenylate Kinase (AK) Activity Assay Kit (Colorimetric/Fluorometric)
MAK040	Adipogenesis Kit
MAK436	AF Cholesterol Assay Kit
MAK331	AF HDL and LDL/VLDL Assay Kit
MAK377	Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric)
MAK378	Angiotensin II Converting Enzyme (ACE2) Inhibitor Screening Kit
MAK082	Aldehyde Dehydrogenase Activity Colorimetric Assay Kit
MAK189	Alpha-Ketoglutarate Dehydrogenase Activity Colorimetric Assay Kit
MAK328	Arginase Inhibitor Screening Kit
MAK055	AST Activity Assay Kit
MAK309	Bile Acid Assay Kit
MAK406	Butyrylcholinesterase Activity Kit (Colorimetric)
MAK228	Calpain Activity Fluorometric Assay Kit
MAK202	Cathepsin S Inhibitor Screening Kit
MAK387	Cathepsin B Activity Assay Kit
MAK401	Cathepsin L Activity Assay Kit
MAK403	Cathepsin S Assay Kit
MAK381	Catalase Assay Kit
MAK106	CETP Activity Assay Kit
MAK305	CETP RP Activity Assay Kit
MAK192	Cholesterol Efflux Assay Kit
MAK043	Cholesterol Quantitation Kit
MAK325	Cholesterol Uptake Assay Kit
MAK396	Cholesterol/Cholesteryl Ester Kit II
MAK423	Citrulline Fluorometric Assay Kit
MAK116	Creatine Kinase Assay Kit
MAK255	Cysteine Assay Kit (Fluorometric)
MAK313	Eadipolysis Assay Kit
MAK178	Enolase Activity Assay Kit
MAK369	Ferric Reducing Antioxidant Power (FRAP) Assay Kit (Colorimetric)
MAK166	Fluorimetric Hydrogen Peroxide Assay Kit
MAK165	Fluorimetric Hydrogen Peroxide Assay Kit
MAK089	Gamma Glutamyl Transferase (GGT) Activity Colorimetric Assay Kit
MAK209	Granzyme B Inhibitor Screening Kit
MAK045	HDL and LDL/VLDL Quantitation Kit
MAK036	Hemin Assay Kit

Kit #	Product
MAK264	High Sensitivity Triglyceride Fluorometric Assay Kit
MAK354	Homocysteine Assay Kit
MAK210	Human Calpain 1 Inhibitor Screening Kit
MAK357	Hydroxyproline Assay Kit (Perchlorate-Free)
MAK100	Inosine Assay Kit
MAK164	Intracellular Hydrogen Peroxide Assay
MAK370	L-Arginine Assay Kit (Colorimetric)
MAK443	L-Lactate Assay Kit
MAK107	LCAT Activity Assay Kit
MAK306	LCFC-LCAT Acyltransferase Activity Assay
MAK194	Lipid (Oil Red O) Staining Kit
MAK085	Lipid Peroxidation (MDA) Kit
MAK109	Lpl Activity Assay Kit
MAK413	Lysophosphatidylcholine Assay Kit (Colorimetric/Fluorometric)
MAK026	Magnesium Assay Kit
MAK307	Malachite Green Phosphate Assay Kit
MAK347	Methionine Assay Kit (Fluorometric)
MAK068	Mpo Colorimetric Activity Assay Kit
MAK069	MPO Fluorometric Activity Assay Kit
MAK110	MTP Activity Assay Kit
MAK283	Myeloperoxidase (MPO) Inhibitor Screening Kit (Fluorometric)
MAK454	Nitric Oxide Assay Kit
MAK323	Nitric Oxide Synthase Inhibitor Screening Kit
MAK407	Nitric Oxide Synthase (NOS) Activity Assay Kit (Colorimetric)
MAK311	Peroxide Assay Kit
MAK365	Phenolic Compounds Assay Kit (Colorimetric)
MAK308	Phosphate Assay Kit
MAK108	Pltp Activity Assay Kit
MAK461	pNPP Phosphatase Assay Kit
MAK094	Protein Carbonyl Content Assay Kit
MAK445	Protein Creatinine Ratio Assay Kit
MAK157	Renin Assay Kit
MAK314	Sialic Acid Assay Kit
MAK335	Succinate Assay Kit
MAK184	Succinate Colorimetric Assay Kit
MAK355	Taurine Assay Kit
MAK409	Thioredoxin Reductase Kit
MAK187	Total Antioxidant Capacity Assay Kit
MAK382	Total Bile Acids (TBA) Assay Kit (Colorimetric)
MAK420	Transketolase Activity Assay Kit (Fluorometric)
MAK266	Triglyceride Quantification Colorimetric/Fluorometric Kit
MAK173	Universal Fluorometric Kinase Assay Kit
MAK077	Uric Acid Assay Kit
MAK078	Xanthine Oxidase Activity Assay Kit



Obesity

Kit #	Product
MAK313	Adipolysis Assay Kit
MAK406	Butyrylcholinesterase Activity Kit (Colorimetric)
MAK325	Cholesterol Uptake Assay Kit



Gastroenterology

Kit #	Product
MAK321	Acetaldehyde Assay Kit
MAK446	Acid Phosphatase Assay Kit
MAK400	Adenosine Deaminase Activity Assay Kit
MAK053	Alcohol Dehydrogenase Activity Assay Kit
MAK447	Alkaline Phosphatase Assay Kit
MAK052	ALT Activity Assay
MAK310	Ammonia Assay Kit
MAK009	Amylase Activity Assay Kit
MAK112	Arginase Assay Kit
MAK055	AST Activity Assay Kit
MAK124	BCG Albumin Assay Kit
MAK125	BCP Albumin Assay Kit
MAK041	Beta-Hydroxybutyrate Assay Kit
MAK309	Bile Acid Assay Kit
MAK126	Bilirubin Assay Kit
MAK003	Branched Chain Amino Acid Kit
MAK177	Ceruloplasmin Activity Colorimetric Kit
MAK345	Chymotrypsin Activity Assay Kit (Fluorometric)
MAK322	Collagen Assay Kit
MAK127	Copper Assay Kit
MAK336	D-Lactate Assay Kit
MAK058	D-Lactate Colorimetric Assay
MAK156	Fatty Acid Uptake Kit
MAK089	Gamma Glutamyl Transferase (GGT) Activity Colorimetric Assay Kit
MAK099	Glutamate Dehydrogenase (GDH) Activity Assay Kit



Neurology

Kit #	Product
MAK419	ACE1 Colorimetric Activity Assay Kit
MAK422	ACE1 Inhibitor Screening Kit (Colorimetric)
MAK039	Acetyl-Coenzyme A Assay Kit
MAK435	Acetylcholine Assay Kit
MAK119	Acetylcholinesterase Assay Kit
MAK324	Acetylcholinesterase Inhibitor Screening Kit
MAK051	Aconitase Activity Assay Kit
MAK337	Aconitase Assay Kit
MAK433	Adenosine Quantification Assay Kit
MAK436	AF Cholesterol Assay Kit
MAK223	Aldolase Activity Colorimetric Assay Kit
MAK189	Alpha-Ketoglutarate Dehydrogenase Activity Colorimetric Assay Kit
MAK418	AMP Colorimetric Assay Kit

Kit #	Product
MAK194	Lipid (Oil Red O) Staining Kit
MAK195	Lipolysis (Adipocyte) Kit
MAK299	N'-Nicotinamide Methyltransferase (NNMT) Inhibitor Screening Assay Kit

Kit #	Product
MAK036	Hemin Assay Kit
MAK258	Hepatic Steatosis Assay Kit
MAK282	High Sensitivity Aldehyde Dehydrogenase Activity Fluorometric Assay Kit
MAK182	High Sensitivity Lactulose Assay Kit
MAK272	High Sensitivity β -Hydroxybutyrate Fluorometric Assay Kit
MAK128	Indican Assay Kit
MAK326	Indole Assay Kit
MAK047	Lipase Activity Assay Kit II
MAK046	Lipase Activity Assay Kit
MAK109	LPL Activity Assay Kit
MAK307	Malachite Green Phosphate Assay Kit
MAK308	Phosphate Assay Kit
MAK049	Phosphatidylcholine Assay Kit
MAK461	pNPP Phosphatase Assay Kit
MAK094	Protein Carbonyl Content Assay Kit
MAK332	Pyruvate Assay Kit
MAK071	Pyruvate Assay Kit
MAK317	Sorbitol Dehydrogenase Assay Kit
MAK382	Total Bile Acids (TBA) Assay Kit (Colorimetric)
MAK290	Trypsin Activity Colorimetric Assay Kit
MAK120	Urease Assay Kit
MAK078	Xanthine Oxidase Activity Assay Kit
MAK444	α -L-Fucosidase Assay Kit
MAK129	β -Glucosidase Assay Kit
MAK398	5'-Nucleotidase (CD73) Activity Assay Kit (Colorimetric)



Neurology (continued)

Kit #	Product
MAK171	Colorimetric Biotin Assay Kit, Sufficie
MAK127	Copper Assay Kit
MAK079	Creatine Assay Kit
MAK080	Creatinine Assay Kit
MAK320	D-2-Hydroxyglutarate (D2HG) Assay Kit
MAK336	D-Lactate Assay Kit
MAK058	D-Lactate Colorimetric Assay
MAK352	DL-Serine Assay Kit
MAK402	Fatty Acid Amide Hydrolase (FAAH) Activity Assay Kit (Fluorometric)
MAK369	Ferric Reducing Antioxidant Power (FRAP) Assay Kit (Colorimetric)
MAK165	Fluorimetric Hydrogen Peroxide Assay Kit
MAK166	Fluorimetric Hydrogen Peroxide Assay Kit
MAK141	Fluorometric Aldehyde Assay Kit
MAK150	Fluorometric Intracellular pH Assay Kit
MAK142	Fluorometric Intracellular Ros Kit (Deep Red)
MAK143	Fluorometric Intracellular Ros Kit (Green)
MAK144	Fluorometric Intracellular Ros Kit (Orange)
MAK145	Fluorometric Intracellular Ros Kit (Red)
MAK206	Fumarase Activity Colorimetric Assay Kit
MAK089	Gamma Glutamyl Transferase (GGT) Activity Colorimetric Assay Kit
MAK004	Glutamate Assay Kit
MAK330	Glutamate Assay Kit
MAK440	Glutathione GSH/GSSG Assay Kit
MAK453	Glutathione S-transferase Assay Kit
MAK261	Glycine Assay Kit (Fluorometric)
MAK091	Hexokinase Colorimetric Assay Kit
MAK264	High Sensitivity Triglyceride Fluorometric Assay Kit
MAK357	Hydroxyproline Assay Kit (Perchlorate-Free)
MAK164	Intracellular Hydrogen Peroxide Assay
MAK085	Lipid Peroxidation (MDA) Kit
MAK196	Malate Dehydrogenase Assay Kit
MAK295	Monoamine Oxidase A (MAO-A) Inhibitor Screening Kit (Fluorometric)

Kit #	Product
MAK136	Monoamine Oxidase Assay Kit
MAK296	Monoamine Oxidase B (MAO-B) Inhibitor Screening Kit (Fluorometric)
MAK299	N'-Nicotinamide Methyltransferase (NNMT) Inhibitor Screening Assay Kit
MAK460	NAD ⁺ /NADH Assay Kit
MAK454	Nitric Oxide Assay Kit
MAK311	Peroxide Assay Kit
MAK365	Phenolic Compounds Assay Kit (Colorimetric)
MAK005	Phenylalanine Assay Kit
MAK049	Phosphatidylcholine Assay Kit
MAK412	Phosphoglycerate Dehydrogenase (PHGDH) Activity Assay Kit (Colorimetric)
MAK461	pNPP Phosphatase Assay Kit
MAK172	Proteasome 20S Activity Assay Kit
MAK094	Protein Carbonyl Content Assay Kit
MAK288	Purine Nucleoside Phosphorylase Activity Assay Kit (Fluorometric)
MAK289	Purine Nucleoside Phosphorylase Activity Assay Kit (Colorimetric)
MAK183	Pyruvate Dehydrogenase Activity Assay Kit
MAK425	Pyridoxal 5'-phosphate (Vit B6) Fluorometric Assay Kit
MAK073	Sarcosine Assay Kit
MAK262	Sphingomyelin Quantification Colorimetric Assay Kit
MAK197	Succinate Dehydrogenase Activity Colorimetric Assay Kit
MAK187	Total Antioxidant Capacity Assay Kit
MAK266	Triglyceride Quantification Colorimetric/Fluorometric Kit
MAK274	Triose Phosphate Isomerase Activity Colorimetric Assay Kit
MAK254	Tryptophan Assay Kit (Fluorometric)
MAK219	Tyrosine Colorimetric Assay Kit
MAK173	Universal Fluorometric Kinase Assay Kit
MAK220	Urokinase Inhibitor Screening Kit
MAK186	Xanthine/Hypoxanthine Assay Kit
MAK032	Zinc Assay Kit
MAK318	α -Mannosidase Assay Kit
MAK385	α -Glucosidase Activity Colorimetric Assay Kit
MAK129	β -Glucosidase Assay Kit





Endocrinology - Diabetes

Kit #	Product
MAK419	ACE1 Colorimetric Activity Assay Kit
MAK422	ACE1 Inhibitor Screening Kit (Colorimetric)
MAK199	Acetoacetate Colorimetric Assay Kit
MAK337	Aconitase Assay Kit
MAK040	Adipogenesis Kit
MAK313	Adipolysis Assay Kit
MAK189	Alpha-Ketoglutarate Dehydrogenase Activity Colorimetric Assay Kit
MAK009	Amylase Activity Assay Kit
MAK095	Aspartate Assay Kit
MAK041	Beta-Hydroxybutyrate Assay Kit
MAK003	Branched Chain Amino Acid Kit
MAK406	Butyrylcholinesterase Activity Kit (Colorimetric)
MAK228	Calpain Activity Fluorometric Assay Kit
MAK404	Carbonic Anhydrase (CA) Activity Assay Kit (Colorimetric)
MAK381	Catalase Assay Kit
MAK202	Cathepsin S Inhibitor Screening Kit
MAK193	Citrate Synthase Activity Assay Kit
MAK423	Citrulline Fluorometric Assay Kit
MAK034	Coenzyme A Assay Kit
MAK203	DPP4 Inhibitor Screening Kit
MAK156	Fatty Acid Uptake Kit
MAK167	Fluorometric Maleimide Assay Kit
MAK151	Fluorometric Thiol Assay Kit
MAK044	Free Fatty Acid Quantitation Kit
MAK013	Glucose and Sucrose Assay Kit
MAK263	Glucose Colorimetric/Fluorometric Assay Kit
MAK450	Glucose Dehydrogenase Assay Kit
MAK083	Glucose Uptake Colorimetric Assay Kit
MAK084	Glucose Uptake Fluorometric Assay Kit
MAK437	Glutathione Peroxidase Assay Kit
MAK453	Glutathione S-transferase Assay Kit
MAK439	Glycolysis Assay Kit

Kit #	Product
MAK181	High Sensitivity Glucose Assay Kit
MAK272	High Sensitivity β -Hydroxybutyrate Fluorometric Assay Kit
MAK134	Ketone Body Assay Kit
MAK329	L-Lactate Assay Kit
MAK443	L-Lactate Assay Kit
MAK064	Lactate Assay Kit
MAK065	Lactate Assay Kit II
MAK194	Lipid (Oil Red O) Staining Kit
MAK085	Lipid Peroxidation (MDA) Kit
MAK211	Lipolysis (3T3-L1) Colorimetric Assay Kit
MAK195	Lipolysis (Adipocyte) Kit
MAK413	Lysophosphatidylcholine Assay Kit (Colorimetric/Fluorometric)
MAK026	Magnesium Assay Kit
MAK018	Maltose and Glucose Assay Kit
MAK019	Maltose Assay Kit
MAK299	N'-Nicotinamide Methyltransferase (NNMT) Inhibitor Screening Assay Kit
MAK102	PEP Colorimetric/Fluorometric Assay Kit
MAK408	Phosphoenolpyruvate Carboxykinase Activity Assay Kit (Colorimetric)
MAK424	Phosphoglycerate Mutase Activity Assay Kit (Colorimetric/Fluorometric)
MAK172	Proteasome 20S Activity Assay Kit
MAK445	Protein Creatinine Ratio Assay Kit
MAK442	Sorbitol Assay Kit
MAK317	Sorbitol Dehydrogenase Assay Kit
MAK355	Taurine Assay Kit
MAK187	Total Antioxidant Capacity Assay Kit
MAK173	Universal Fluorometric Kinase Assay Kit
MAK077	Uric Acid Assay Kit
MAK123	α -Glucosidase Assay Kit
MAK444	α -L-Fucosidase Assay Kit
MAK456	β -N-Acetylglucosaminidase Assay Kit



Immunology

Kit #	Product
MAK400	Adenosine Deaminase Activity Assay Kit
MAK377	Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric)
MAK378	Angiotensin II Converting Enzyme (ACE2) Inhibitor Screening Kit
MAK112	Arginase Assay Kit
MAK138	Autophagy Assay Kit
MAK373	Covidy [™] EN450 Substrate
MAK374	Covidy [™] ED450 Substrate
MAK375	Covidy [™] TF670 Substrate
MAK376	Covidy [™] IF670 Substrate
MAK397	DNase I Activity Assay Kit (Fluorometric)
MAK178	Enolase Activity Assay Kit
MAK438	Glutamine Assay Kit
MAK176	Granzyme B Activity Assay Kit
MAK209	Granzyme B Inhibitor Screening Kit

Kit #	Product
MAK036	Hemin Assay Kit
MAK356	Indoleamine 2,3-Dioxygenase 1 (IDO1) Activity Assay Kit
MAK100	Inosine Assay Kit
MAK429	Inorganic Polyphosphate Assay Kit (Fluorometric)
MAK421	Lysine Assay Kit (Fluorometric)
MAK367	Nitrite Assay Kit (Griess Reagent)
MAK407	Nitric Oxide Synthase (NOS) Activity Assay Kit (Colorimetric)
MAK427	Proline Assay Kit (Fluorometric)
MAK288	Purine Nucleoside Phosphorylase Activity Assay Kit (Fluorometric)
MAK289	Purine Nucleoside Phosphorylase Activity Assay Kit (Colorimetric)
MAK335	Succinate Assay Kit
MAK184	Succinate Colorimetric Assay Kit
MAK032	Zinc Assay Kit



Hematology

Kit #	Product
MAK346	Activated Protein C (APC) Inhibitor Screening Kit (Colorimetric)
MAK235	Adenylate Kinase (AK) Activity Assay Kit (Colorimetric/Fluorometric)
MAK133	ADP Assay Kit
MAK081	ADP Colorimetric Assay Kit II
MAK082	Aldehyde Dehydrogenase Activity Colorimetric Assay Kit
MAK223	Aldolase Activity Colorimetric Assay Kit
MAK126	Bilirubin Assay Kit
MAK022	Calcium Colorimetric Assay
MAK404	Carbonic Anhydrase (CA) Activity Assay Kit (Colorimetric)
MAK127	Copper Assay Kit
MAK240	Factor IXa Activity Assay Kit (Fluorometric)
MAK236	Factor VIIIa Activity Assay Kit (Fluorometric)
MAK238	Factor Xa Activity Fluorometric Assay Kit
MAK239	Factor Xa Inhibitor Screening Kit (Fluorometric)
MAK015	G6PDH Activity Assay Kit
MAK450	Glucose Dehydrogenase Assay Kit
MAK021	Glucose-6-Phosphate Assay Kit
MAK014	Glucose-6-Phosphate Assay Kit
MAK451	Glucose-6-Phosphate Dehydrogenase Kit
MAK452	Glucose-6-Phosphate Dehydrogenase Inhibitor Screening Kit
MAK176	Granzyme B Activity Assay Kit
MAK316	Heme Assay Kit
MAK115	Hemoglobin Assay Kit



Genitourinary

Kit #	Product
MAK411	Alkaline Phosphatase Activity Fluorometric Assay Kit
MAK310	Ammonia Assay Kit
MAK377	Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric)
MAK378	Angiotensin II Converting Enzyme (ACE2) Inhibitor Screening Kit
MAK124	BCG Albumin Assay Kit
MAK125	BCP Albumin Assay Kit
MAK079	Creatine Assay Kit
MAK116	Creatine Kinase Assay Kit
MAK080	Creatinine Assay Kit
MAK150	Fluorometric Intracellular Ph Assay Kit

Kit #	Product
MAK091	Hexokinase Colorimetric Assay Kit
MAK025	Iron Assay Kit
MAK429	Inorganic Polyphosphate Assay Kit (Fluorometric)
MAK066	Lactate Dehydrogenase Activity Assay Kit
MAK421	Lysine Assay Kit (Fluorometric)
MAK068	MPO Colorimetric Activity Assay Kit
MAK069	MPO Fluorometric Activity Assay Kit
MAK246	Neutrophil Elastase Activity Assay Kit (Fluorometric)
MAK244	Plasmin Activity Assay Kit (Fluorometric)
MAK245	Plasmin Inhibitor Screening Kit (Fluorometric)
MAK461	pNPP Phosphatase Assay Kit
MAK288	Purine Nucleoside Phosphorylase Activity Assay Kit (Fluorometric)
MAK289	Purine Nucleoside Phosphorylase Activity Assay Kit (Colorimetric)
MAK425	Pyridoxal 5'-phosphate (Vit B6) Fluorometric Assay Kit
MAK072	Pyruvate Kinase Activity Assay Kit
MAK314	Sialic Acid Assay Kit
MAK242	Thrombin Activity Fluorometric Assay Kit
MAK243	Thrombin Inhibitor Screening Kit (Fluorometric)
MAK394	Total Iron-Binding Capacity (TIBC) and Serum Iron Assay Kit (Colorimetric)
MAK274	Triose Phosphate Isomerase Activity Colorimetric Assay Kit
MAK455	Whole Blood Hemoglobin (Hb) Kit
MAK129	β -Glucosidase Assay Kit

Kit #	Product
MAK150	Fluorometric Intracellular Ph Assay Kit
MAK431	Methionine Adenosyltransferase Activity Assay Kit (Colorimetric)
MAK315	Oxalate Assay Kit
MAK179	Oxalic Acid Colorimetric Assay Kit
MAK101	PAH (p-Aminohippuric Acid) Assay Kit
MAK386	Pyrophosphate (PPi) Assay Kit (Fluorometric/Colorimetric)
MAK132	Sulfate Assay Kit
MAK077	Uric Acid Assay Kit
MAK410	Urea Colorimetric Assay Kit II
MAK032	Zinc Assay Kit
MAK456	β -N-Acetylglucosaminidase Assay Kit



Rheumatology

Kit #	Product
MAK337	Aconitase Assay Kit
MAK189	Alpha-Ketoglutarate Dehydrogenase Activity Colorimetric Assay Kit
MAK177	Ceruloplasmin Activity Colorimetric Kit
MAK399	COX-2 Inhibitor screening kit
MAK414	COX Activity Assay Kit (Fluorometric)
MAK322	Collagen Assay Kit
MAK152	Colorimetric Sphingomyelinase Assay Kit
MAK397	DNase I Activity Assay Kit (Fluorometric)
MAK155	Fluorometric Sphingomyelinase Assay Kit

Kit #	Product
MAK209	Granzyme B Inhibitor Screening Kit
MAK036	Hemin Assay Kit
MAK357	Hydroxyproline Assay Kit (Perchlorate-Free)
MAK386	Pyrophosphate (PPi) Assay Kit (Fluorometric/Colorimetric)
MAK415	Salicylate Assay Kit (Colorimetric)
MAK187	Total Antioxidant Capacity Assay Kit
MAK077	Uric Acid Assay Kit
MAK078	Xanthine Oxidase Activity Assay Kit
MAK186	Xanthine/Hypoxanthine Assay Kit
MAK416	3' to 5' Exonuclease Activity Assay (Fluorometric)



Orthopedics

Kit #	Product
MAK411	Alkaline Phosphatase Activity Fluorometric Assay Kit
MAK189	Alpha-Ketoglutarate Dehydrogenase Activity Colorimetric Assay Kit
MAK201	Cathepsin K Inhibitor Screening Kit
MAK127	Copper Assay Kit
MAK116	Creatine Kinase Assay Kit

Kit #	Product
MAK166	Fluorimetric Hydrogen Peroxide Assay Kit
MAK165	Fluorimetric Hydrogen Peroxide Assay Kit
MAK209	Granzyme B Inhibitor Screening Kit
MAK164	Intracellular Hydrogen Peroxide Assay
MAK311	Peroxide Assay Kit
MAK093	Phosphofructokinase (PFK) Activity Colorimetric Assay Kit



Geriatrics

Kit #	Product
MAK418	AMP Colorimetric Assay Kit
MAK201	Cathepsin K Inhibitor Screening Kit
MAK127	Copper Assay Kit
MAK116	Creatine Kinase Assay Kit
MAK352	DL-Serine Assay Kit
MAK165	Fluorimetric Hydrogen Peroxide Assay Kit
MAK166	Fluorimetric Hydrogen Peroxide Assay Kit
MAK440	Glutathione GSH/GSSG Assay Kit

Kit #	Product
MAK164	Intracellular Hydrogen Peroxide Assay
MAK460	NAD ⁺ /NADH Assay Kit
MAK407	Nitric Oxide Synthase (NOS) Activity Assay Kit (Colorimetric)
MAK311	Peroxide Assay Kit
MAK361	Phosphatidylethanolamine Assay Kit (Fluorometric)
MAK093	Phosphofructokinase (PFK) Activity Colorimetric Assay Kit
MAK349	Total Polyamine Assay Kit (Fluorometric)



Ped-Neonatology

Kit #	Product
MAK012	Galactose Assay Kit
MAK134	Ketone Body Assay Kit
MAK017	Lactose Assay Kit

Kit #	Product
MAK311	Peroxide Assay Kit
MAK005	Phenylalanine Assay Kit



Dermatology

Kit #	Product
MAK381	Catalase Assay Kit
MAK322	Collagen Assay Kit
MAK171	Colorimetric Biotin Assay Kit, Sufficie

Kit #	Product
MAK127	Copper Assay Kit
MAK008	Hydroxyproline Assay Kit
MAK257	Tyrosinase Inhb Screng Kit (Colorimetric)



Pulmonology

Kit #	Product
MAK377	Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric)
MAK378	Angiotensin II Converting Enzyme (ACE2) Inhibitor Screening Kit
MAK373	Covidyte™ EN450 Substrate
MAK374	Covidyte™ ED450 Substrate
MAK375	Covidyte™ TF670 Substrate
MAK376	Covidyte™ IF670 Substrate
MAK023	Chloride Assay Kit
MAK322	Collagen Assay Kit
MAK397	DNase I Activity Assay Kit (Fluorometric)

Kit #	Product
MAK165	Fluorimetric Hydrogen Peroxide Assay Kit
MAK166	Fluorimetric Hydrogen Peroxide Assay Kit
MAK453	Glutathione S-transferase Assay Kit
MAK164	Intracellular Hydrogen Peroxide Assay
MAK046	Lipase Activity Assay Kit
MAK047	Lipase Activity Assay Kit II
MAK246	Neutrophil Elastase Activity Assay Kit (Fluorometric)
MAK311	Peroxide Assay Kit
MAK379	Superoxide Dismutase (SOD) Activity Kit
MAK366	Total Sulfite Assay Kit (Colorimetric)



Nutrition

Kit #	Product
MAK138	AUTOPHAGY ASSAY KIT
MAK124	BCG Albumin Assay Kit
MAK125	BCP Albumin Assay Kit
MAK024	Cobalt Assay
MAK034	Coenzyme A Assay Kit
MAK171	Colorimetric Biotin Assay Kit, Sufficie
MAK079	Creatine Assay Kit
MAK080	Creatinine Assay Kit
MAK204	Enteropeptidase/Enterokinase Activity Assay Kit
MAK369	Ferric Reducing Antioxidant Power (FRAP) Assay Kit (Colorimetric)

Kit #	Product
MAK128	Indican Assay Kit
MAK370	L-Arginine Assay Kit (Colorimetric)
MAK211	Lipolysis (3T3-L1) Colorimetric Assay Kit
MAK421	Lysine Assay Kit (Fluorometric)
MAK365	Phenolic Compounds Assay Kit (Colorimetric)
MAK427	Proline Assay Kit (Fluorometric)
MAK073	Sarcosine Assay Kit
MAK267	Sucrose Colorimetric/Fluorometric Assay Kit
MAK104	Total Carbohydrate Assay Kit
MAK366	Total Sulfite Assay Kit (Colorimetric)



Environmental Testing

Kit #	Product
MAK434	Acetaldehyde Assay Kit
MAK448	Boron Assay Kit
MAK130	Chromium Assay Kit
MAK140	Colorimetric Aldehyde Assay Kit, Blue
MAK139	Colorimetric Aldehyde Assay Kit
MAK459	Detergent Assay Kit
MAK141	Fluorometric Aldehyde Assay Kit
MAK059	Formate Assay Kit

Kit #	Product
MAK117	Glycerol Assay Kit
MAK270	High Sensitivity Free Glycerol Fluorometric Assay Kit
MAK118	Invertase Activity Assay Kit
MAK030	Phosphate Colorimetric Kit
MAK442	Sorbitol Assay Kit
MAK187	Total Antioxidant Capacity Assay Kit
MAK120	Urease Assay Kit



Food-Beverage - Cosmetic Testing

Kit #	Product
MAK321	Acetaldehyde Assay Kit
MAK434	Acetaldehyde Assay Kit
MAK334	Antioxidant Assay Kit
MAK022	Calcium Colorimetric Assay
MAK227	Chloramphenicol Extraction Kit
MAK023	Chloride Assay Kit
MAK192	Cholesterol Efflux Assay Kit
MAK130	Chromium Assay Kit
MAK057	Citrate Assay Kit
MAK024	Cobalt Assay
MAK322	Collagen Assay Kit
MAK079	Creatine Assay Kit
MAK058	D-Lactate Colorimetric Assay
MAK096	D-Mannitol Colorimetric Assay Kit
MAK010	D-Sorbitol Colorimetric Assay Kit
MAK226	Enrofloxacin Extraction Kit
MAK076	Ethanol Assay Kit
MAK338	Fatty Acid Extraction Kit (High Standard)
MAK372	Fatty Acid Extraction Kit for Pet Food
MAK174	Fatty Acid Extraction Kit, Low Standard (150 ug/ml)
MAK225	Fatty Acid Methyl Ester Purification Kit
MAK224	Fatty Acid Methylation Kit
MAK369	Ferric Reducing Antioxidant Power (FRAP) Assay Kit (Colorimetric)
MAK142	Fluorometric Intracellular Ros Kit (Red)
MAK144	Fluorometric Intracellular Ros Kit (Orange)
MAK059	Formate Assay Kit
MAK449	Free Amino Nitrogen Assay Kit
MAK044	Free Fatty Acid Quantitation Kit
MAK012	Galactose Assay Kit
MAK013	Glucose and Sucrose Assay Kit
MAK263	Glucose Colorimetric/Fluorometric Assay Kit
MAK330	Glutamate Assay Kit
MAK004	Glutamate Assay Kit
MAK117	Glycerol Assay Kit
MAK428	Glycolic Acid Assay Kit (Fluorometric)
MAK045	HDL and LDL/VLDL Quantitation Kit
MAK036	Hemin Assay Kit

Kit #	Product
MAK270	High Sensitivity Free Glycerol Fluorometric Assay Kit
MAK182	High Sensitivity Lactulose Assay Kit
MAK169	High Sensitivity Pyrophosphate Assay Kit
MAK264	High Sensitivity Triglyceride Fluorometric Assay Kit
MAK272	High Sensitivity β -Hydroxybutyrate Fluorometric Assay Kit
MAK432	Histamine Quantification Assay Kit
MAK326	Indole Assay Kit
MAK118	Invertase Activity Assay Kit
MAK025	Iron Assay Kit
MAK319	Isocitrate Assay Kit
MAK370	L-Arginine Assay Kit (Colorimetric)
MAK065	Lactate Assay Kit II
MAK064	Lactate Assay Kit
MAK017	Lactose Assay Kit
MAK421	Lysine Assay Kit (Fluorometric)
MAK026	Magnesium Assay Kit
MAK018	Maltose and Glucose Assay Kit
MAK019	Maltose Assay Kit
MAK454	Nitric Oxide Assay Kit
MAK365	Phenolic Compounds Assay Kit (Colorimetric)
MAK030	Phosphate Colorimetric Kit
MAK122	Phospholipid Assay Kit
MAK427	Proline Assay Kit (Fluorometric)
MAK168	Pyrophosphate Assay Kit
MAK247	Sodium Assay Kit (Colorimetric)
MAK442	Sorbitol Assay Kit
MAK175	Sterol Extraction Kit
MAK184	Succinate Assay Kit
MAK267	Sucrose Colorimetric/Fluorometric Assay Kit
MAK379	Superoxide Dismutase (SOD) Activity Kit
MAK355	Taurine Assay Kit
MAK187	Total Antioxidant Capacity Assay Kit
MAK104	Total Carbohydrate Assay Kit
MAK366	Total Sulfite Assay Kit (Colorimetric)
MAK395	Tyrosinase Activity Assay Kit (Colorimetric)
MAK257	Tyrosinase Inhb Screeng Kit (Colorimetric)
MAK032	Zinc Assay Kit

Drug Discovery/Pharma

Kit #	Product
MAK313	Adipolysis Assay Kit
MAK135	ADP/ATP Ratio Assay Kit
MAK331	AF HDL and LDL/VLDL Assay Kit
MAK411	Alkaline Phosphatase Activity Fluorometric Assay Kit
MAK334	Antioxidant Assay Kit
MAK377	Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric)
MAK378	Angiotensin II Converting Enzyme (ACE2) Inhibitor Screening Kit
MAK426	c-Src Kinase Inhibitor Screening Kit
MAK373	Covidyde™ EN450 Substrate
MAK374	Covidyde™ ED450 Substrate
MAK375	Covidyde™ TF670 Substrate
MAK376	Covidyde™ IF670 Substrate
MAK106	CETP Activity Assay Kit
MAK305	CETP RP Activity Assay Kit
MAK192	Cholesterol Efflux Assay Kit
MAK203	DPP4 Inhibitor Screening Kit
MAK402	Fatty Acid Amide Hydrolase (FAAH) Activity Assay Kit (Fluorometric)

Kit #	Product
MAK330	Glutamate Assay Kit
MAK258	Hepatic Steatosis Assay Kit
MAK441	Kinase Assay Kit
MAK107	LCAT Activity Assay Kit
MAK306	LCFC-LCAT Activity Assay Kit
MAK109	LPL Activity Assay Kit
MAK393	Lysozyme Inhibitor Screening Kit
MAK431	Methionine Adenosyltransferase Activity Assay Kit (Colorimetric)
MAK110	MTP Activity Assay Kit
MAK161	Multidrug Resistance Assay Kit
MAK121	Neuraminidase Assay Kit
MAK323	Nitric Oxide Synthase Inhibitor Screening Kit
MAK122	Phospholipid Assay Kit
MAK412	Phosphoglycerate Dehydrogenase (PHGDH) Activity Assay Kit (Colorimetric)
MAK424	Phosphoglycerate Mutase Activity Assay Kit (Colorimetric/Fluorometric)
MAK108	PLTP Activity Assay Kit
MAK332	Pyruvate Assay Kit



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Псков (8112)59-10-37

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Уфа (347)229-48-12
Хабаровск (4212)92-98-04
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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

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

www.sigmaaldrich.nt-rt.ru | | scx@nt-rt.ru