

Carbohydrate Inhibition Kit (Cat. No.: CIK-001)

Kit Composition

The Carbohydrate Inhibition Kit (CIK-001) contains 10ml each of the following carbohydrates: α -Lactose, Melibiose, D-Mannose, N-Acetyl-D-glucosamine, α -L-Fucose.

Concentration

α -Lactose	0.1M
Melibiose	0.1M
D-Mannose	0.1M
N-Acetyl-D-glucosamine	0.05M
α -L-Fucose	0.05M

Molecular weight

α -Lactose	360.3
Melibiose	342.3
D-mannose	180.16
N-Acetyl-D-glucosamine	221.21
α -L-Fucose	164.16

Specific Applications

See individual datasheets for References.

Additional Products

In addition to more than 300 labeled lectins, EY Laboratories, Inc. also manufactures a large selection of carbohydrate gels for lectin purification, antibody gels for purification of primary antibodies, and a number of different protein/glycoprotein gels. For further information, please contact customer service at EY Laboratories, Inc.

Carbohydrate Inhibition Kit Product Information

Catalog Number:	C-6010-10
Description:	α -Lactose monohydrate Gal β (1,4) Glc
Lot Number:	
Package Size:	10 ml /vial
Molecular Weight:	360.3
Molecular Formula:	$C_{12}H_{22}O_{11} \cdot H_2O$
Purity:	Substantially free of glucose (approx. 0.01%) Contains approximately 2% β -Lactose.
Storage:	Store at room temperature.
Stability:	Stable for more than 1 year when stored in powder form at 5-8°C.
Caution:	Avoid skin contact. Do not inhale powder.

EY LABORATORIES, INC.

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Carbohydrate Inhibition Kit Product Information

Catalog Number: C-6006-10

Description: Melibiose

Chemical Name: 6-O- α -D-Galactopyranosyl-D-glucose

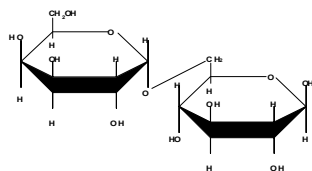
Lot Number:

Package Size: 10 ml / vial.

Molecular Weight: 342.3

Specific Rotation: $[\alpha]_D^{20} + 111.7^\circ$ (c = 4)

Chemical Structure:



Heavy Metals:
(as Cu): < 10ppm
(as Fe): < 5ppm
(as AS): < 0.5ppm
(as Cl): < 50ppm

Solution: Clear and colorless.

Storage: Store at room temperature.

Stability: Stable for more than 1 year when stored in powder form at 5-8°C.

Caution: The aluminum seals have sharp edges and the vial itself may have cracks which can cause lacerations. Use caution when opening the vial.

Catalog Number: C-6005-10

Description: D-Mannose, C.P.

Chemical Name: D-Mannopyranose.

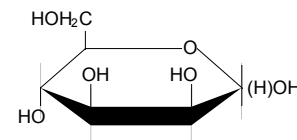
Lot Number:

Package Size: 10 ml / vial.

Molecular Weight: 180.16

Specific Rotation: $[\alpha]_D^{20} + 14.2^\circ$ (c 4, H₂O)

Chemical Structure:



Heavy Metals:
(as Cu): < 10 ppm
(as Fe): < 5 ppm
(as AS): < 0.5 ppm

Solution: Clear and colorless.

Storage: Store at room temperature.

Stability: Stable for more than 1 year when stored in powder form at 5-8°C.

Caution: The aluminum seals have sharp edges and the vial itself may have cracks which can cause lacerations. Use caution when opening the vial.

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Sample Only

Carbohydrate Inhibition Kit Product Information

Catalog Number: C-6001-10

Description: N-Acetyl-D-glucosamine, C.P.

Chemical Name: 2-Acetamido-2-deoxy-D-glucose.

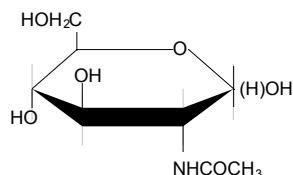
Lot Number:

Package Size: 10 ml / vial.

Molecular Weight: 221.21

Specific Rotation: $[\alpha]_D^{20} + 41.2^\circ$ (c 2, H₂O)

Chemical Structure:



Heavy Metals:
(as Cu): < 10ppm
(as Fe): < 3ppm
(as AS): < 0.5ppm
(as Cl): < 50ppm

Solution: Clear and colorless.

Storage: Store at room temperature.

Stability: Stable for more than 1 year when stored in powder form at 5-8°C.

Caution: The aluminum seals have sharp edges and the vial itself may have cracks which can cause lacerations. Use caution when opening the vial.

Catalog Number: C-6002-10

Description: L-Fucose, C.P.

Chemical Name: 6-Deoxy-L-galactose

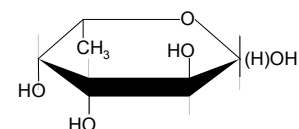
Lot Number:

Package Size: 10 ml /vial.

Molecular Weight: 164.16

Specific Rotation: $[\alpha]_D^{20} - 75.9^\circ$ (c 4, H₂O)

Chemical Structure:



Heavy Metals:
(as Cu): < 10 ppm
(as Fe): < 5 ppm
(as As): < 0.5 ppm

Solution: Clear and colorless.

Storage: Store at room temperature.

Stability: Stable for more than 1 year when stored in powder form at 5-8°C.

Caution: The aluminum seals have sharp edges and the vial itself may have cracks which can cause lacerations. Use caution when opening the vial.

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MATERIAL SAFETY DATA SHEET

Effective Date: March 31, 2006

Revision 6

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MSDS for Monosaccharides, Disaccharide and Polysaccharides Continued - page 2 of 2.

PRODUCT IDENTIFICATION

Name: Monosaccharides, Disaccharides, and Polysaccharides.
Catalog Number (s): C-6000 to C-8006
CAS Numbers: 14215-68-0, 10036-64-3, 6696-41-9, 59-23-4, 6363-53-7, 3458-28-4, 585-99-9, 492-62-6, 131-48-6, 617-04-9, 5989-81-1, 70431-34-4, 11040-27-0, 32181-59-2.
Synonyms: N-Acetyl-D-Galactosamine, N-Acetyl-D-Glucosamine, α -L-Fucose, D-Galactose, Maltose, D-Mannose, Melibiose, D-Glucose, N-Acetylneuraminic Acid (sialic acid and oligomers of sialic acid), Methyl α -D-Mannopyranoside, α Lactose, Colominic Acid, N-Acetylneuraminyl Lactose (sialyllactose), Chitobiose (diacetyl chitobiose), chitotriose (triacetyl chitotriose), N-acetyllactosamine, Methyl β -D-Mannopyranoside Isopropylate.

EMERGENCY INFORMATION

EY Laboratories, Inc.
107 North Amphlett Blvd.
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EMERGENCY PHONE:
650-342-3296

HAZARDOUS COMPONENTS

These carbohydrates are not considered to be hazardous but they may cause irritation or an allergic response in sensitive individuals.

HEALTH HAZARD INFORMATION

EXPOSURE LIMITS: None established. The toxicological properties of these products have not been thoroughly investigated. Care should be taken when handling any of these materials.

EFFECTS OF OVEREXPOSURE: No effects of overexposure have been documented. The carbohydrates may cause irritation or an allergic reaction
ROUTES OF EXPOSURE: Ingestion, inhalation, or contact with skin. Contact with the eyes may also present a hazard.

PHYSICAL CHARACTERISTICS

APPEARANCE: White to tan powder.
SOLUBILITY: Soluble in water.

FIRE AND EXPLOSION HAZARDS

EXTINGUISHING MEDIA: Not considered to be a fire hazard.
SPECIAL FIRE FIGHTING PRECAUTIONS: Water spray or CO₂.
None required.

NOTE: Most solutions contain 0.05% sodium azide as a preservative. Azide may react with lead and copper plumbing to form explosive metal azides. Flush with copious amounts of water when disposing material in the sink.

REACTIVITY DATA

STABILITY: Stable. Decomposition products are not known to be hazardous.
HAZARDOUS POLYMERIZATION: Will NOT occur.
INCOMPATIBILITY: None known.

SPILL / LEAK PROCEDURES

MATERIAL RELEASE / SPILL: Clean up spill with soap and water.
WASTE DISPOSAL: Incinerate, autoclave, or dispose of paper waste in accordance with all Local, State, and Federal regulations. These materials are fully biodegradable.

EMERGENCY FIRST AID PROCEDURES

May be harmful if swallowed, injected, or allowed to contact the eyes. Wash contacted area with water for 15 minutes. If inhaled remove to fresh air. Report exposure to the appropriate safety official. Consult a physician if irritation occurs or if there is any indication of an allergic response, such as watering eyes, sneezing, or difficulty breathing. Any eye contact should be reported to a physician immediately.

SPECIAL HANDLING PRECAUTIONS

VENTILATION: No special ventilation is required.
EYE PROTECTION: Recommended but not required for most applications.
RESPIRATORY PROTECTION: Recommended to prevent inhalation of powders. An approved respirator may be required for those individuals already known to be sensitive to these materials.
PROTECTIVE GLOVES: Recommended but not required for most applications. Required for those individuals known to be sensitive to any of these materials.

SPECIAL PRECAUTIONS

This material is for research and experimental application only. It is not intended for food, drug, household, agricultural, or cosmetic use. All materials should be handled only by technically qualified individuals experienced with working with potentially hazardous chemicals. The above information is correct to the best of our knowledge. The user should make independent decisions regarding completeness of the information, based on all sources available. EY Laboratories, Inc. shall not be held liable for any damage resulting from handling or contact with the above product.

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