

SECTION 1 CHEMICAL IDENTIFICATION

CAT NO: 024259

PRODUCT NAME: Human Collagen Type I ELISA Kit (Colorimetric)

ALTERNATE NAME:

**MANUFACTURER/
SUPPLIER:** Novus Biologicals, LLC
10771 E Easter Ave
Centennial, CO 80112, USA
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APPLICATION
CREATION DATE 11/17/2015
REVISION DATE 11/19/2015

CAS NO:
MOLECULAR WEIGHT:
MOLECULAR FORMULA:



ATTENTION

This product is composed of antibodies and biochemical components in buffered aqueous solution. Per section 1910.1200(d) of title 29 CFR, hazardous ingredients at less than 1% and carcinogens at less than 0.1% are considered non-hazardous.

SECTION 2. HAZARDS IDENTIFICATION

Causes burns.

The known hazards identified with this kit are those associated with the following substances.

<u>CHEMICAL KIT</u>	<u>CAS #</u>	<u>EC#</u>	<u>%</u>	<u>CLASSIFICATION (as pure compound)</u>
Glycerol	56-81-5	200-289-5	50%	-
Sodium Azide	26628-22-8	247-852-1	0.02%	T, N (pure cmpd)
3,3',5,5'-tetramethylbenzidine (TMB)	54827-17-7	259-364-6	0.05%	Xi, H315, H319, H335
1M Sulfuric Acid (Stop Solution)	7664-93-9	231-639-5	9.8%	C, H314

C: Corrosive

N: Dangerous for the environment

T: Toxic

Xi: Irritant

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL KIT</u>	<u>CAS #</u>	<u>EC#</u>	<u>CLASSIFICATION</u>
ELISA BIOASSAY KIT	None	None	C, Xi, H314, H315, H319, H335

Kit Components:

024259A: Microtiter Strip, 1x48 or 1x96 wells, Pre-coated, ready to use

024259B: Standard, 2x1 vial

024259C: Standard Diluent, 1x10ml or 1x20ml, Buffered solution with 0.02% sodium azide

024259D: Detection Reagent A, 1x60ul or 1x120ul, 50% glycerol

024259E: Detection Reagent B, 1x60ul or 1x120ul, 50% glycerol

024259F: Assay Diluent A, 1x6ml or 1x12ml, Buffered solution with 0.02% sodium azide

024259G: Assay Diluent B, 1x6ml or 1x12ml, Buffered solution with 0.02% sodium azide

024259H: TMB Substrate, 1x4.5ml or 1x9ml, 0.05% 3,3',5,5' tetramethylbenzidine

024259J: Positive Control, 1x1 vial

024259K: Stop Solution, 1x3ml or 1x6ml, 1M H2SO4

024259L: Wash Buffer, 30X, 1x10ml or 1x20ml

SECTION 4. FIRST-AID MEASURES

Skin Contact: Remove contaminated clothing and wash the exposed skin area thoroughly with soap and water.
Eye Contact: Flush with copious amounts of water for at least 15 minutes. Seek medical attention.
Inhalation: Remove to fresh air, give oxygen if breathing becomes difficult and seek medical attention.
Ingestion: Flush mouth with copious amounts of water, provided that the person is conscious and seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry chemical, foam or carbon dioxide.
Special Firefighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Body Precautions: Wear rubber gloves, impermeable shoe covers and long laboratory coat.
Environmental Precautions: Contain the spill to the smallest area possible.
Cleaning Measures: Take care not to contaminate body. Absorb the material with disposable towels. Wash area with disposable towels.
Transfer contaminated absorbent to a chemical waste container for disposal. Dispose of all contaminated trash in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Avoid inhalation and contact with eyes and skin. Avoid prolonged or repeated exposure.
Storage: Store at 4°C/-20°C.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Safety shower and eye bath. Use only in a chemical fume hood. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. NIOSH/MSHA-approved respirator. Compatible chemical-resistant gloves. Chemical safety goggles. Keep tightly closed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Water Solubility: Readily miscible with water
Other Information: No data available

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable
Conditions to Avoid: Strong oxidizing agents
Hazardous Decomposition Products: May form carbon and nitrogen oxides.
Hazardous Polymerization: Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Effects: Causes burns.

SECTION 12. ECOLOGICAL INFORMATION

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Observe all federal, state and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT (US):
UN2796, Class: 8, Packing group: II
Proper Shipping Name: Sulfuric acid
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG:
UN2796, Class: 8, Packing group: II, EMS-No: F-A, S-B
Proper shipping name: Sulfuric acid
Marine pollutant: No

IATA:

UN2796, Class: 8, Packing group: II
Proper shipping name: Sulfuric acid

SECTION 15. REGULATORY INFORMATION

Hazards: C

Corrosive. R34, H314 Causes burns.

S-PHRASES: S26, S36/37/39, S45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Caution: Substance not yet fully tested.

EU Regulation/Classification/Labeling Information: Not available for this product.

Chemical Inventory Status:

Canada (WHMIS): DSL No, NDSL No.

Stop Solution (H₂SO₄):

OSHA Hazards: Target Organ Effect, Corrosive

SARA 302 Components: The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS:	Revision Date:
Sulfuric acid	7664-93-9	2007-07-01

SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313:

Sulfuric acid	7664-93-9	2007-07-01
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SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components:

Sodium azide	26628-22-8	2007-07-01
Sulfuric acid	7664-93-9	2007-07-01
Glycerol	56-81-5	2007-03-01

Pennsylvania Right To Know Components:

Sodium azide	26628-22-8	2007-07-01
Sulfuric acid	7664-93-9	2007-07-01
Glycerol	56-81-5	2007-03-01

New Jersey Right To Know Components:

Sulfuric acid	7664-93-9	2007-07-01
Glycerol	56-81-5	2007-03-01

California Prop. 65 Components:

WARNING! This product contains a chemical known to the State of California to cause cancer.

Sulfuric acid	7664-93-9	2007-09-28
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SECTION 16. OTHER INFORMATION

Recommended Use: For research use only. Not for use on or in humans and animals.

Consider all materials as potentially infectious and use only approved FDA and NIH guidelines for the proper handling and disposal of infectious material. Only authorized and trained personnel should handle this reagent.