

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Code **NBP3-18212**
Product Name **Human CEA ELISA Kit (Colorimetric)**
Company Information

Novus Biologicals, LLC 10771 E Easter Ave, Centennial CO CO
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SECTION 2: HAZARDS SUMMARIZING

Emergency summary

excessive exposure requires special first aid measures and medical follow-up. Fire: use carbon dioxide, sand, powder fire extinguisher. If necessary, wear self-contained breathing apparatus to put out the fire.

GHS hazard classification

not hazardous substances or mixtures according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	CAS-No	Content	Classification
Antibody Coated Plate	-	-	Not hazardous at this concentration
Standard Lyophilized	-	-	Not hazardous at this concentration
Concentrated Biotin Conjugate Antibody (100x)	-	50% glycerol	Not hazardous at this concentration
Streptavidin-HRP Concentrated (100x)	-	50% glycerol	Not hazardous at this concentration
Standard/Sample Diluent (R1)	-	TBS with 1% BSA and 0.01% proclin 300	Not hazardous at this concentration
Biotin Conjugate Antibody Diluent (R2)	-	1xTBS with 1% BSA and 0.01% proclin 300	Not hazardous at this concentration
Streptavidin-HRP Diluent(R3)	-	1xTBS with 1% BSA and 0.01% proclin 300	Not hazardous at this concentration

Wash Buffer(25x)	-	1% tween-20, 0.33% Thymol, in 25X TBS	Not hazardous at this concentration
TMB Substrate	-	0.05%3,3',5,5'tetramethylbenzidine	Not hazardous at this concentration
Stop Solution	-	1M H2SO4	Not hazardous at this concentration

SECTION 4: FIRST AID MEASURES

Skin contact	flush carefully with water for a few minutes. If symptoms appear, seek medical advice.
Eye contact	immediately rinse with plenty of water for at least 15 minutes, including the region under the eyelids. If symptoms continue, please immediately call a doctor.
Ingestion	do not feed anything through the mouth of unconscious patients. If symptoms persist, please immediately call a doctor.
Do not induce vomiting without medical advice.	
Inhalation	move to fresh air area. If symptoms continue, please immediately call a doctor. If breathing stops, please give artificial respiration.

SECTION 5: FIRE-FIGHTING MEASURES

Special risk description

no data available

Fire extinguishing method or agent

use carbon dioxide, sand, powder to extinguish fire.

Fire precautions and measures

If necessary, wear self-contained breathing apparatus to put out the fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Protective measures, protective equipment and emergency procedures for operators

Use personal protective equipment. Avoid dust formation. Avoid breathing vapor, smoke or gases. Ensure adequate ventilation. Evacuate to a safe area. Avoid breathing dust.

Environmental protection measures

Excessive exposure requires special first aid measures and medical follow-up. Fire: use carbon dioxide, sand, powder fire extinguisher. If necessary, wear self-contained breathing apparatus to put out the fire.

Methods of storage and removal of the spilled chemicals and the materials used for disposal

Containment of the spill, collection of the spill with an electricity-proof vacuum cleaner or wet brush, and place the spill into containers for disposal according to local regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Prevent the formation of dust and aerosols. Provide suitable exhaust equipment where dust is generated. Prevent inhalation of steam and smoke. Keep away from the fire. - NO FIREWORKS. Measures should be taken to prevent electrostatic accumulation.

Precautions for safe storage

Store in a cool place. Keep containers closed and stored in a dry, ventilated place.

Incompatibility

See part 10.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits in the workplace

MAC(mg/m3)	no data available
PC-STEL(mg/m3)	no data available
TLV-TWA(mg/m3)	no data available
PC-TWA(mg/m3)	no data available
TLV-C(mg/m3)	no data available
TLV=STEL(mg/m3)	no data available

Detection method

no data available

Engineering control

closed production process, enhance ventilation. Provide safe shower and eye wash facilities

Exposure control

Respiratory protection: if the risk assessment indicates the use of air-purifying gas masks, please use full-face multi-function gas masks or gas mask canister as alternate engineering control. If a gas mask is the only way of protection, use a full-face gas supplied mask. Use respirators and parts that have been tested and passed government standards.

Hand protection	wear chemical-resistant gloves
Eye protection	wear chemical safety glasses.
Skin and body protection	wear chemical protective clothing.
Other protection	NO smoking at work. After work, shower and change clothes. Pay attention to personal hygiene.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Describes the physically appearance and chemical properties of the chemical, including.

the appearance and properties, PH value, the boiling point, the melting point, relative density (water = 1), relative vapor density (air = 1), the saturated vapor pressure, heat of combustion, critical temperature, critical pressure, octanol/water partition coefficient, flash point, ignition temperature, explosion limit, solubility, main USES and other special physical and chemical properties.

appearance	Liquid	
smell	odorless	
boiling point/boiling range	°C no data available	
melting point/melting range	°C no data available	° F no data available
flash point	°C no data available	° F no data available
autoignition temperature	°C no data available	° F no data available
oxidability	unavailable information	° F no data available
water solubility	no data available	
viscosity	no data available	

SECTION 10: STABILITY AND REACTIVITY

Stability	stable under normal conditions
hazardous reaction	no data available
Conditions to avoid	no data available
Incompatible substance	no data available
Dangerous decomposition products	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

no harm

Potential health effects

Eyes	May cause eye irritation in susceptible people
Skin	May cause eye irritation in susceptible people
Inhalation	Harmful by inhalation
Ingestion	Swallowing may be harmful
Carcinogenesis	N/A
Mutagenic effect	N/A
Reproduction toxicity	N/A
Allergenicity	N/A
Target organ effect	no known effects on normal use conditions

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Contains no substances that are dangerous to the environment
Mobility	No useful information
Biodegradability	No useful information
Biocumulativity	No useful information

SECTION 13: DISPOSAL

Dispose of contents and containers in accordance with local regulations and laws.

SECTION 14: TRANSPORT INFORMATION

IATA

Correct transport name	not dangerous goods in the legal sense of transport
Hazard category	N/A
Subcategory	N/A
Packaging group	N/A
UN number	N/A

SECTION 15: REGULATORY INFORMATION

International directory Conform

SECTION 16: OTHER INFORMATION

Reason for Revision (M)SDS sections updated.
Revision Date Dec-6-2016

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