

Safety Data Sheet (SDS)

<i>Revision Number: 1.1</i>	<i>Last updated: May 2015</i>
<u>1. Product and Company Identification</u>	
<i>Product Name:</i>	SensoLyte®Green Elastase Assay Kit *Fluorimetric*
<i>Manufacturer/Supplier:</i>	AnaSpec, Inc. www.anaspec.com 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: service@anaspec.com
<i>Catalog Number</i>	AS-72178
<i>Unit Size</i>	1 kit
<u>2. Hazards Identification</u>	
<i>Emergency Overview:</i>	
<i>GHS Hazard Classification:</i>	
<i>GHS Physical Hazards</i>	
	Component A: None Component B: None Component C: Not Applicable Component D: Flammable liquid (Category 2)
<i>GHS Health and Environmental Hazards</i>	
	Component A: H316 Causes mild skin irritation H320 Causes mild eye irritation Component B: H316 Causes Mild Skin Irritation H320 Causes Mild Eye Irritation Component C: Irritant to eyes and skin Component D: Irritant to eyes and skin
<i>GHS Signal Words:</i>	
	Component A: Warning Component B: Warning Component C: Danger Component D: Warning
<i>GHS Hazard Statements:</i>	
	Component A: None Component B: H302 Harmful if swallowed. Component C: H302 Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.
 H410 Very toxic to aquatic life with long lasting effects.

Component D: H227 Combustible liquid.

GHS Precautionary Statements:

Component A: P280 Wear Eye Protection

Component B: None

Component C: None

Component D: None

HMIS Classification:

Component A:	Component B:	Component C:	Component D:
<i>Health hazard: 1</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>
<i>Flammability: 0</i>	<i>Flammability: 0</i>	<i>Flammability: 0</i>	<i>Flammability: 2</i>
<i>Physical hazards: 0</i>	<i>Physical hazards: 0</i>	<i>Physical hazards: 0</i>	<i>Physical hazards: 0</i>

NFPA Rating:

Component A:	Component B:	Component C:	Component D:
<i>Health hazard: 1</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>
<i>Fire: 0</i>	<i>Fire: 0</i>	<i>Fire: 0</i>	<i>Fire: 2</i>
<i>Reactivity hazard: 0</i>	<i>Reactivity hazard: 0</i>	<i>Reactivity hazard: 0</i>	<i>Reactivity hazard: 0</i>

3. Composition / Information on Ingredients

Ingredients/Components:

<i>Chemical Name:</i>	<i>Description</i>	<i>CAS Number:</i>
Component A	Contains PBS	N/A
Component B	Elastase, porcine pancreas	N/A
Component C	Proprietary	N/A
Component D	Contains DMSO	67-68-5

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4. First Aid Measures**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Component A

Inhalation: Move subject to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Get prompt medical attention.

Ingestion: Do NOT induce vomiting. If swallowed, wash out mouth with water if subject is conscious. Immediately consult a physician. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. Consult a physician.

Eyes: Immediately flush eyes with large amount of water for at least 15 minutes. Consult a physician.

Component B

Inhalation: Move subject to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Get prompt medical attention.

Ingestion: Do NOT induce vomiting. If swallowed, wash out mouth with water if subject is conscious. Immediately consult a physician. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. Consult a physician.

Eyes: Immediately flush eyes with large amount of water for at least 15 minutes. Consult a physician.

Component C

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a Physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Skin: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

Component D

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

Eyes: Flush eyes with water as a precaution.

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<u>5. Fire Fighting Measures</u>	
<i>Extinguishing media:</i>	<p>Component A: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p> <p>Component B: None</p> <p>Component C: Not applicable</p> <p>Component D: For small fires, use alcohol resistant foam, dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance.</p>
<i>Special firefighting procedures:</i>	<p>Component A: None</p> <p>Component B: None</p> <p>Component C: Not applicable</p> <p>Component D: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.</p>
<i>Unusual fire and explosions hazards:</i>	<p>Component A: None</p> <p>Component B: None</p> <p>Component C: Not applicable</p> <p>Component D: Combustible liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Hazardous carbon oxides and sulphur oxides formed under fire conditions.</p>
<u>6. Accidental Release Measures</u>	
<i>Containment and spill response</i>	<p>Component A: Soak up with inert absorbent material.</p> <p>Component B: None</p> <p>Component C: Not applicable</p> <p>Component D: Immediately contact emergency personnel. Prevent further leakage or spillage if safe to do so. Avoid breathing vapors or mist. Remove all sources of ignition and provide ventilation. Collect with an electrically protected vacuum cleaner, by wet-brushing, or by absorbing with vermiculite, sand or earth, and place in appropriate container for disposal. Do not let material enter drains.</p>
<i>PPE</i>	Use personal protective equipment
<u>7. Handling and Storage</u>	
<p>Component A: Store at –20 °C</p> <p>Component B: Store at –80 °C</p> <p>Component C: Store at 4 °C</p> <p>Component D:</p> <p><i>Handling:</i> Wash thoroughly after handling. Remove and wash any contaminated clothing. Keep container tightly closed and avoid contact with eyes, skin, and clothing. Use with adequate ventilation and avoid ingestion and inhalation. Keep away from heat and flame.</p> <p><i>Storage:</i> Store in a tightly closed container away from moisture, heat, and flame. Store away from incompatible substances. Storage under a nitrogen blanket has been recommended.</p>	

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8. Exposure Controls / Personal Protection	
<i>Engineering controls</i>	Component A: None Component B: None Component C: Not applicable Component D: Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present.
<i>PPE</i>	Component A,B and C: Wear goggles, gloves and lab coat when handling this product Component D: <i>Respiratory System:</i> A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. <i>Skin and Body:</i> Wear appropriate work uniform or laboratory coat to prevent skin exposure. <i>Hands:</i> Use chemical resistant, impervious gloves. Appropriate techniques should be used to remove potentially contaminated gloves. <i>Eyes:</i> Wear chemical splash goggles.
9. Physical and Chemical Properties	
<i>Physical State</i>	Liquid
<i>Odo</i>	Not determined
<i>Solubility in Water</i>	Soluble
<i>Specific Gravity</i>	Not determined
<i>pH</i>	Component C - 7.5
<i>Boiling Point</i>	Not determined
<i>Melting Point</i>	Not determined
<i>Flash Point</i>	Not determined
<i>Vapor Pressure:</i>	Not determined
<i>Vapor Density:</i>	Not determined
10. Stability and Reactivity	
<i>Thermal Decomposition</i>	Stable under recommended storage conditions
<i>Dangerous Products of Decomposition</i>	Not Applicable
<i>Dangerous Reactions</i>	No dangerous reactions known.
11. Toxicological Information	
<i>RTECS Number</i>	NA
<i>Toxicity</i>	Component D contains DMSO: <i>For DMSO</i> Oral LD50 LD50 Oral - rat - 14,500 mg/kg Inhalation LC50

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	LC50 Inhalation - rat - 4 h - 40250 ppm Dermal LD50 LD50 Dermal - rabbit - > 5,000 mg/kg
Health Hazards	May cause skin irritation. May cause eye irritation May be harmful if inhaled. May be harmful if swallowed.
<i>Potential Hazards</i>	Not identified
<i>Carcinogenicity:</i>	Not listed by NTP, IARC, or OSHA
<i>OSHA Permissible Exposure Limit(PEL) Data</i>	Not identified
<i>ACGIH Threshold Limit Values (TLV)</i>	Not identified
<u>12. Ecological Information</u>	
<p>Component A and B: Do not allow product to reach ground water, watercourse, or sewage system. Component D contains DMSO: For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5</p> <p>Toxicity Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 34,000 mg/l - 96 h LC50 - Oncorhynchus mykiss (rainbow trout) - 35,000 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia pulex (Water flea) - 27,500 mg/l Toxicity to algae EC50 - Lepomis macrochirus (Bluegill) - > 400,000 mg/l - 96 h</p> <p>Persistence and degradability No data available</p> <p>Bioaccumulative potential No data available</p> <p>Mobility in soil No data available</p> <p>PBT and vPvB assessment No data available</p> <p>Other adverse effects No data available</p>	
<u>13. Disposal Considerations</u>	

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Contaminated packaging

Dispose of as unused product.

Component A ,B and C: Consult local, state, or national regulations for proper disposal.

Component D :

For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. Transport Information: IATA Exempted quantities labeling

<i>UN Number</i>	N/A
<i>Hazard Class</i>	N/A
<i>Identification Number</i>	N/A
<i>Packing Group</i>	N/A
<i>Proper Shipping Name (DOT)</i>	N/A

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15. Regulatory information			
<i>California Proposition 65:</i>		Not Listed	
US TSCA (Toxic Substance Control Act):		Component A: Not Listed Component B: Not Listed Component C: Not listed Component D: Listed	
<i>US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):</i>		Component A : Not Listed Component B : Not Listed Component C : Not listed Component D : 261.33 8(d).	
US SARA Title III		Component A: Not Listed Component B: Not Listed Component C SARA 302 components: N/A SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A Component D SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard	
US Clean Air Act:		Component C, D Listed under Hazardous Air Pollutants: Not listed Listed under Class 1 Ozone Depletors: Not listed Listed under Class 2 Ozone Depletors: Not listed	
<i>US Clean Water Act:</i>		Components C, D Listed under "Hazardous Substances": Not listed Listed under "Priority Pollutants": Not listed Listed under "Toxic Pollutants": Not listed	
<i>US States: Right-to-Know: Listed in the following States:</i>			
Component A:	Component B:	Component C:	Component D:
N/A	N/A	N/A	Pennsylvania Revision Date 2007-03-01
N/A	N/A	N/A	New Jersey Revision Date 2007-03-01
N/A	N/A	N/A	N/A

<i>European/International Regulations:</i>				
	Component A	Component B	Component C	Component D
EC EINICS	N/A	N/A	N/A	200-664-3
<i>EC Risk statements</i>	N/A	N/A	N/A	36/37/38
WGK	N/A	N/A	N/A	1
<i>Canada-DSL/NDSL</i>	Not listed	Not listed	Not listed	Listed
<i>Canada-WHMIS classification</i>	N/A	N/A	N/A	D2B
<i>Canada-Canadian Ingredient Disclosure List</i>	Not Listed	Not Listed	Not Listed	Listed

16. Other Information

It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product.

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