

Safety Data Sheet (SDS)

<i>Revision Number: 1.1</i>	<i>Last updated: April 2015</i>
<u>1. Product and Company Identification</u>	
<i>Product Name:</i>	SensoLyte [®] 520 TACE (α -Secretase) Activity Assay Kit * <i>Fluorimetric</i> *
<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-72085
<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>	
<ul style="list-style-type: none"> Component A: Flammable liquid (Category 4) Component B: Flammable liquid (Category 4) Component C: Not Applicable Component D: Flammable liquid (Category 4) Component E: Not Applicable 	
<i>GHS Health and Environmental Hazards</i>	
<ul style="list-style-type: none"> Component A: Irritant to eyes and skin Component B: Irritant to eyes and skin Component C: Irritants to eyes and skin Component D: Irritants to eyes and skin Component E: Skin irritant 	
<i>GHS Signal Words:</i>	
<ul style="list-style-type: none"> Component A: Warning Component B: Warning Component C: Danger Component D: Warning Component E: Warning 	
<i>GHS Hazard Statements:</i>	
<ul style="list-style-type: none"> Component A: H227 Combustible liquid Component B: H227 Combustible liquid 	

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Component C: H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H410 Very toxic to aquatic life with long lasting effects.

Component D: H227 Combustible liquid

Component E: H303 May be harmful if swallowed.
 H319 Causes serious eye irritation.
 H402 Harmful to aquatic life.

GHS Precautionary Statements:

Component A: - None
 Component B: - None
 Component C: - None
 Component D: - None
 Component E: P264 Wash skin thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/eye protection/face protection.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P337 + P313 If eye irritation persists: Get medical advice/attention.
 P501 Dispose of contents/container to an approved waste disposal plant.

HMIS Classification:

Component A:	Component B:	Component C:	Component D:	Component E:
<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 2</i>
<i>Flammability: 2</i>	<i>Flammability: 2</i>	<i>Flammability: 0</i>	<i>Flammability: 2</i>	<i>Flammability: 0</i>
<i>Physical hazards: 0</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:	Component E:
<i>Health hazard: 0</i>	<i>Health hazard: 0</i>	<i>Health hazard: 4</i>	<i>Health hazard: 0</i>	<i>Health hazard: 2</i>
<i>Fire: 2</i>	<i>Fire: 2</i>	<i>Fire: 2</i>	<i>Fire: 2</i>	<i>Fire: 0</i>
<i>Reactivity hazard: 0</i>	<i>Physical hazards: 0</i>	<i>Physical hazards: 0</i>	<i>Physical hazards: 0</i>	<i>Physical hazards: 0</i>

3. Composition / Information on Ingredients*Ingredients/Components:*

<i>Chemical Name:</i>	<i>Description</i>	<i>CAS Number:</i>
Component A	Contains DMSO	67-68-5
Component B	Contains DMSO	67-68-5
Component C	Proprietary	NA
Component D	Contains DMSO	67-68-5
Component E	Proprietary	NA

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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: 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.

Component B

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.

Component C

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

Ingestion: 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. Consult a physician.

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.

Component E

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

Ingestion: 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: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

5. Fire Fighting Measures**AnaSpec Inc.**

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<i>Extinguishing media:</i>	<p>Component A and B: For small fires, use alcohol resistant foam, dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance.</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> <p>Component E: For small fires, use dry chemical powder. For larger fires, use water spray, fog, or foam.</p>
<i>Special firefighting procedures:</i>	<p>Component A and B: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.</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> <p>Component E: 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 and B: 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> <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> <p>Component E: None</p>
6. Accidental Release Measures	
<i>Containment and spill response</i>	<p>Component A and B: 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> <p>Component C: Not applicable</p>

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	<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> <p>Component E: If necessary, neutralize with dilute acetic acid. Use appropriate equipment to place in appropriate waste disposal container. Spread water on contaminated surface and dispose of according to local and regional requirements.</p>
PPE	Use personal protective equipment

7. Handling and Storage

Component A and B

Handling: 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.

Storage: 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.

Component C Not applicable

Component D: *Handling:* 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.

Storage: 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.

Component E:

Handling: Do not ingest or inhale.

Storage: Store in a tightly closed container in a cool, well-ventilated area. Keep away from sources of ignition. Keep away from incompatible materials such as oxidizers and metals.

8. Exposure Controls / Personal Protection

<i>Engineering controls</i>	<p>Component A and B: Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present.</p> <p>Component C: Not applicable</p> <p>Component D: Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present.</p> <p>Component E: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations</p>
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	generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
PPE	<p>Component A and B <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.</p> <p>Component C: Not applicable</p> <p>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.</p> <p>Component E: <i>Respiratory System:</i> Use an approved/certified dust respirator. <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> Handle with safety glasses.</p>

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 Component E -8
<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

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<u>10. Stability and Reactivity</u>	
<i>Thermal Decomposition</i>	Not applicable
<i>Dangerous Products of Decomposition</i>	Not Applicable
<i>Dangerous Reactions</i>	Not Applicable
<u>11. Toxicological Information</u>	
<i>RTECS Number</i>	Component A: PV6210000 Component B: PV6210000 Component C: NA Component D: PV6210000 Component E: NA
<i>Toxicity</i>	<i>Component A, Component B and Component D contains DMSO.</i> <i>For DMSO</i> Oral LD50 LD50 Oral - rat - 14,500 mg/kg Inhalation LC50 LC50 Inhalation - rat - 4 h - 40250 ppm Dermal LD50 LD50 Dermal - rabbit - > 5,000 mg/kg
<i>Health Hazards</i>	<i>No data available</i>
<i>Potential Hazards</i>	Potential Health Effects <i>Component A, Component B and Component D contains DMSO</i> <i>For DMSO</i> Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Aggravated Medical Condition Avoid contact with DMSO solutions containing toxic materials or materials with unknown toxicological properties. Dimethyl sulfoxide is readily absorbed through skin and may carry such materials into the body.
<i>Carcinogenicity:</i>	No data available
<i>OSHA Permissible Exposure Limit(PEL) Data</i>	No data available
<i>ACGIH Threshold Limit Values (TLV)</i>	No data available
<u>12. Ecological Information</u>	

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For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component **A, B** and **D** contains DMSO)

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

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. Disposal Considerations

For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Component A, B and D)

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>	DMSO This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm
US TSCA (Toxic Substance Control Act):	Component A : Listed Component B : Listed Component C : Not listed Component D : Listed Component E : Listed
<i>US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):</i>	Component A : 261.33 8(d). Component B : 261.33 8(d). Component C : Not listed Component D : 261.33 8(d). Component E : CAS# 60-00-4: 5000 lb final RQ; 2270 kg final RQ
US SARA Title III	Component A SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard Component B SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard Component C SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard Component D SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A Component E SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: Acute Health Hazard
US Clean Air Act:	Component A, B, C, D and E <i>Listed under Hazardous Air Pollutants: Not listed</i> <i>Listed under Class 1 Ozone Depletors: Not listed</i> <i>Listed under Class 2 Ozone Depletors: Not listed</i>
<i>US Clean Water Act:</i>	Components A, B, C, and D Listed under "Hazardous Substances": Not listed <i>Listed under "Priority Pollutants": Not listed</i> Listed under "Toxic Pollutants": Not listed Component E Listed under "Hazardous Substances": Listed <i>Listed under "Priority Pollutants": Not listed</i> <i>Listed under "Toxic Pollutants": Not listed</i>
US States: Right-to-Know: Listed in the following States:	

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Component A: Pennsylvania Revision Date 2007-03-01	Component B: Pennsylvania Revision Date 2007-03-01	Component C: NA	Component D: Pennsylvania Revision Date 2007-03-01	Component E: Pennsylvania Revision Date 2007-03-01
New Jersey Revision Date 2007-03-01	New Jersey Revision Date 2007-03-01	NA	New Jersey Revision Date 2007-03-01	New Jersey Revision Date 2007-03-01
N/A	N/A	N/A	N/A	Massachusetts Revision Date 2007-03-01

European/International Regulations:

	Component A	Component B	Component C	Component D	Component E
EC EINICS	200-664-3	200-664-3	NA	200-664-3	200-573-9
EC Risk statements	36/37/38	36/37/38	NA	36/37/38	36/37/38
WGK	1	1	NA	1	2
Canada- DSL/NDSL	Listed	Listed	Not listed	listed	Listed
Canada- WHMIS classification	D2B	D2B	NA	D2B	D2B
Canada- Canadian Ingredient Disclosure List	Listed	Listed	Not listed	Listed	Not 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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