	Safet	y Data Sheet	(SDS)	
Revision Number: 1.1			< / /	updated: April 2015
<b>1. Product and Company</b>	Identification			
Product Name:	AnaTag <sup>T</sup>	<sup>M</sup> 5-FITC Microscale Pr	otein Labeling Kit	
Manufacturer/Supplier:	34801 Ca Fremont, Tel: 510-	a <u>spec.com</u> ampus Drive , CA 94555 -791-9560		
		-791-9572 ervice@anaspec.com		
Catalog Number	AS-7206	*		
Unit Size	1 kit			
2. Hazards Identification				
Othe GHS Health and Environm Com Com Com GHS Signal Words: Com Othe GHS Hazard Statements:	ponent D: Flam r Components: Not A <i>pental Hazards</i> ponent A: Not Applic ponent B and C: Irrita ponent D and E: Irrita ponent F and G:Not A ponent D: Warning r Components: Not A	cable ant to eyes ants to eyes and skin Applicable Applicable	4)	
Com	•		ed.	
Component A:	Component B:	Component C:	Component D:	Component E,F,G:
Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0
Flammability: 0	Flammability: 0	Flammability: 0	Flammability: 2	Flammability: 0
Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0

NFPA Rating:

Component A:	Component B:	Component C:	Component D:	Component E,F,G:
Health hazard: 0				
Fire: 0	Fire: 0	Fire: 0	Fire: 2	Fire: 0
Reactivity hazard: 0				

## 3. Composition / Information on Ingredients

Ingredients/Components:

Chemical Name:	Description	CAS Number:
Component A	Proprietary	N/A
Component B	Proprietary	N/A
Component C	Polyacrylamide-co-methylene-bis-acrylamide	25034-58-6
Component D	DMSO	67-68-5
Component E	Proprietary	NA
Component F and G	Wash tube and Collection tube	NA

### 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,F and G: Not Applicable

#### **Component B**

*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.

*Skin:* Wash off with soap and plenty of water.

*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: Induce vomiting and call for medical help.

*Skin:* Generally this component does not irritate the skin

*Eyes:* Rinse thoroughly with plenty of water for at least 15 minutes.

#### 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:* Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. *Ingestion:* Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

*Skin:* Rinse with plenty of water. If symptoms arise, call a physician.

<i>Eyes:</i> Rinse immediately with	plenty of water, also under the eyelids, for at least 15 minutes. If symptoms
persist, call a physician.	
5. Fire Fighting Measures	
Extinguishing media:	Component A, F and G: Not Applicable
	<b>Component B:</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
	<b>Component C:</b> CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam
	<b>Component D:</b> For small fires, use alcohol resistant foam, dry chemical, or
	carbon dioxide. For large fires, use water spray from a safe distance.
	<b>Component E:</b> Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Special firefighting procedures:	Component A,F and G : Not Applicable
	<b>Component B:</b> Wear self-contained breathing apparatus for firefighting if
	necessary.
	Component C: No special measures required
	<b>Component D:</b> Fire fighters should wear positive pressure self-contained
	breathing apparatus (SCBA) and full turnout gear.
	<b>Component E:</b> Wear self-contained breathing apparatus and protective Suit.
Unusual fire and explosions hazards:	<b>Component D:</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.
	Other Components: None

# 6. Accidental Release Measures

Containment and spill	Component A, F and G: Not Applicable
response	<b>Component B:</b> Keep in suitable, closed containers for disposal.
	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.
	<b>Component C:</b> Wear protective equipment. Keep unprotected persons away. <b>Component D:</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.
	<b>Component E:</b> Soak up with inert absorbent material
PPE	Use personal protective equipment

## 7. Handling and Storage

**Component A, C:** Keep in dry place.

**Component B:** Keep container tightly closed in a dry and well-ventilated place.

**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:* Avoid contact with skin, eyes and clothing. Wear personal protective equipment. *Storage:* Keep in a dry, cool and well-ventilated place.

## 8. Exposure Controls / Personal Protection

Engineering controls	Component A,F and G: Not Applicable
	<b>Component B and C:</b> Facilities storing and using this material should be equipped with a
	safety shower and eyewash station.
	<b>Component D:</b> Facilities storing and using this material should be equipped with a safety
	shower and eyewash station. Adequate ventilation should also be present.
	Component E: Ensure adequate ventilation, especially in confined areas
PPE	Component A ,B:
	Respiratory System: Respiratory protection not required
	Hands: Handle with gloves. Gloves must be inspected prior to use. Use proper glove
	removal technique (without touching glove's outer surface) to avoid skin contact with this
	product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
	<i>Eyes:</i> Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
	Skin and body protection: impervious clothing, The type of protective equipment must be
	selected according to the concentration and amount of the dangerous substance at the
	specific workplace.
	Component C:
	The usual precautionary measures of handling chemicals should be followed
	Hands: Protective gloves
	Eyes: Safety glasses.
	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.
	Skin and Body: Wear appropriate work uniform or laboratory coat to prevent skin exposure.
	Hands: Use chemical resistant, impervious gloves. Appropriate techniques should be used
	to remove potentially contaminated gloves.
	<i>Eyes:</i> Wear chemical splash goggles.
	Component E:
	Respiratory System: In case of insufficient ventilation wear suitable respiratory equipment.
	Skin and Body: Lightweight protective clothing.
	Hands: Impervious gloves.
	Eyes: Safety glasses with side-shields

Component F a	
Physical State	Component A,C,F and G-Solid Component B, D and E-Liquid
Odo	Not determined
Solubility in Water	Soluble
Specific Gravity	Not determined
pH	Component B -9
	Component C-7
	Component E -7.3
Boiling Point	Not determined
Melting Point	Not determined
Flash Point	Not determined
Vapor Pressure:	Not determined
Vapor Density:	Not determined
10.Stability and Reactivity	
Thermal Decomposition	Not applicable
Dangerous Products of Decomposition	Not Applicable
Dangerous Reactions	Not Applicable
11.Toxicological Information	
RTECS Number	Component A.B,C: NA
	Component D: PV6210000
	Component E,F, G: NA
Toxicity	Component D contains DMSO.
	For <b>DMSO</b>
	Oral LD50
	LD50 Oral - rat - 14,500 mg/kg
	Inhalation LC50
	LC50 Inhalation - rat - 4 h - 40250 ppm
	Dermal LD50
	LD50 Dermal - rabbit - $> 5,000 \text{ mg/kg}$
Health Hazards	No data available
Potential Hazards	None
Carcinogenicity:	No data available
OSHA Permissible Exposure Limit(PEL)	No data available
Data	
ACGIH Threshold Limit Values (TLV)	No data available

Component C: Water hazard class 1 (German R	egulation): slightly hazardous for water.
	s of it to reach ground water, water course or sewage system.
Component D: For Dimethyl sulfoxide (DMSO)	) CAS-No. 67-68-5
Toxicity	
Toxicity to fish LC50 - Pimephales promelas (fat	thead minnow) - 34,000 mg/l - 96 h
LC50 - Oncorhynchus mykiss (rainbow trout) - 3	25,000 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrat	es. EC50 - Daphnia pulex (Water flea) - 27,500 mg/l
Toxicity to algae EC50 - Lepomis macrochirus (l	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	
<b>Component C:</b> Hand over to hazardous waste di	sposers
<b>Component D:</b> For Dimethyl sulfoxide (DMSO)	
1	emical incinerator equipped with an afterburner and scrubber. Offer
surplus and non-recyclable solutions to a licensed	
Contaminated packaging	
Dispose of as unused product.	
14. Transport Information:	
UN Number	N/A
Hazard Class	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A
15. Regulatory information	
California Proposition 65:	None
US TSCA (Toxic Substance Control Act):	Component A,B,C: Not listed
(	Component D: Listed
	Component E,F,G: Not listed
US CERCLA (Comprehensive Environmental	Component A,B,C : N/A
Response, Compensation, and Liability Act:	<b>Component D</b> : 261.33 8(d).
	Component E,F,G: N/A

US SARA Title III			Comp	onen	nt A,B,C, E,F		
					components: N/	/A	
					components: N/		
					/312 Hazards: N		
			Comp	onen	nt D		
			SARA	302	components: N/	/A	
			SARA	313	components: N/	/A	
			SARA	311	/312 Hazards: F	ire Hazard, Chroni	c Health Hazard
US Clean Air Act:			Comp	onen	nt A, B, C, D , E	C,F,G	
						r Pollutants: Not li	sted
			Listed	unde	er Class 1 Ozone	e Depletors: Not lis	sted
			Listed	unde	er Class 2 Ozone	e Depletors: Not lis	sted
US Clean Water Ad	et:				nt A, B, C, D,E,		
						ubstances": Not lis	ted
						utants": Not listed	
			Listed	unde	er "Toxic Polluta	ants": Not listed	
US States: Right	-to-Kn	ow: Listed in the	following State	?s:			
Component A:	Co	omponent B:	Component C:	:	<b>Component D:</b>		Component E,F,G:
					Pennsylvania		
N/A	N/	/A	N/A		Revision Date 2007-03-01		N/A
					New Jersey		
N/A	N/		N/A		Revision Date	2007-03-01	N/A
N/A	N/	/A	N/A N/A			2007-03-01	N/A N/A
	N/	/A			Revision Date	2007-03-01	
N/A	N/	/A			Revision Date	2007-03-01 Component D	
N/A <i>European/Intern</i>	N/	A I Regulations:	N/A		Revision Date : N/A Component C		N/A
N/A	N/ ationa	A <u>l Regulations:</u> Component A	N/A Component B		Revision Date 2 N/A Component C	Component D	N/A Component E,F,G
N/A European/Intern EC EINICS	N/ ationa	/A <i>l Regulations:</i> Component A N/A	N/A Component B N/A	N/	Revision Date 2 N/A Component C /A /A	Component D 200-664-3	N/A Component E,F,G N/A
N/A European/Intern EC EINICS EC Risk statemer	N/ ationa	/A <i>l Regulations:</i> Component A N/A N/A	N/A Component B N/A N/A	N/ N/ N/	Revision Date 2 N/A Component C /A /A	Component D 200-664-3 36/37/38	N/A Component E,F,G N/A N/A
N/A European/Intern EC EINICS EC Risk statemer WGK	N/ ationa	A I Regulations: Component A N/A N/A N/A N/A	N/A Component B N/A N/A N/A	N/ N/ N/	Revision Date 2 N/A Component C /A /A	Component D           200-664-3           36/37/38           1	N/A       Component E,F,G       N/A       N/A       N/A
N/A European/Intern EC EINICS EC Risk statemen WGK Canada-	N/ ationa	A I Regulations: Component A N/A N/A N/A N/A	N/A Component B N/A N/A N/A	N/ N/ N/	Revision Date : N/A Component C /A /A /A /A /A /bt listed	Component D           200-664-3           36/37/38           1	N/A       Component E,F,G       N/A       N/A       N/A
N/A <u>European/Intern</u> EC EINICS EC Risk statemer WGK Canada- DSL/NDSL	ationa	A I Regulations: Component A N/A N/A N/A Not listed N/A	N/A Component B N/A N/A N/A Not listed D2B	N/ N/ N/ D2	Revision Date 2 N/A Component C /A /A /A bt listed 2B	Component D           200-664-3           36/37/38           1           Listed	N/A       Component E,F,G       N/A       N/A       N/A       N/A       N/A       Not listed
N/A European/Intern EC EINICS EC Risk statemer WGK Canada- DSL/NDSL Canada-	ationa	A I Regulations: Component A N/A N/A N/A N/A Not listed	N/A Component B N/A N/A N/A N/A Not listed	N/ N/ N/ D2	Revision Date : N/A Component C /A /A /A /A /A /bt listed	Component D           200-664-3           36/37/38           1           Listed	N/A       Component E,F,G       N/A       N/A       N/A       N/A       N/A       Not listed
N/A European/Intern EC EINICS EC Risk statemer WGK Canada- DSL/NDSL Canada- WHMIS classific	ationa ats	A I Regulations: Component A N/A N/A N/A Not listed N/A	N/A Component B N/A N/A N/A Not listed D2B	N/ N/ N/ D2	Revision Date 2 N/A Component C /A /A /A bt listed 2B	Component D           200-664-3           36/37/38           1           Listed           D2B	N/A       Component E,F,G       N/A       N/A       N/A       N/A       N/A       N/A       N/A

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