



**SAFETY DATA SHEET**  
**Banyan GFAP Kit**

Page 1/10

**Trade name:** Banyan GFAP Kit

**Product number:** BC-1210

ver. 040518

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

**Product Name:** Banyan GFAP Kit

**Catalog Number:** BC-1210

**Kit Components:**

1. GFAP Assay Plate
2. GFAP Calibrator
3. GFAP Calibrator Diluent
4. GFAP Control 1
5. GFAP Control 2
6. GFAP Detection Ab
7. GFAP Detection Ab Diluent
8. GFAP Assay Diluent
9. Wash Tablet
10. Substrate A
11. Substrate B
12. Plate Seal

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Components of an *in-vitro* diagnostic device

**1.3. Details of the supplier of the safety data sheet**

Banyan Biomarkers, Inc.  
16470 West Bernardo Drive, Suite 100, San Diego, CA 92127  
www.banyanbio.com  
Phone: +1 760-710-0460 Fax: +1 760-710-0460  
E-mail: [info@banyanbio.com](mailto:info@banyanbio.com)

**1.4. Emergency telephone number**

For queries please contact telephone number +1 760-710-0460 (Business hours 8:30 a.m. to 4:30 p.m.)

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS).

1. GFAP Assay Plate	Not classified
2. GFAP Calibrator	Skin sensitization (Category 1), H317
3. GFAP Calibrator Diluent	Skin sensitization (Category 1), H317
4. GFAP Control 1	Skin sensitization (Category 1), H317
5. GFAP Control 2	Skin sensitization (Category 1), H317
6. GFAP Detection Ab	Not classified
7. GFAP Detection Ab Diluent	Skin sensitization (Category 1), H317
8. GFAP Assay Diluent	Skin sensitization (Category 1), H317
9. Wash Tablet	Not classified
10. Substrate A	Not classified
11. Substrate B	Not classified
12. Plate Seal	Not classified



# SAFETY DATA SHEET

## Banyan GFAP Kit

Page 2/10

**Trade name:** Banyan GFAP Kit

**Product number:** BC-1210

ver. 040518

### 2.2 Health Hazards

1. GFAP Assay Plate	Not applicable
2. GFAP Calibrator	May cause allergic skin reaction
3. GFAP Calibrator Diluent	May cause allergic skin reaction
4. GFAP Control 1	May cause allergic skin reaction
5. GFAP Control 2	May cause allergic skin reaction
6. GFAP Detection Ab	Not applicable
7. GFAP Detection Ab Diluent	May cause allergic skin reaction
8. GFAP Assay Diluent	May cause allergic skin reaction
9. Wash Tablet	Not applicable
10. Substrate A	Not applicable
11. Substrate B	Not applicable
12. Plate Seal	Not applicable

### 2.3 Label elements

Some components above contain ProClin 300:



Pictogram:

Signal Word: Warning

Hazard statement: H317: May cause an allergic skin reaction

Precautionary Statement - Prevention:

P261: Avoid breathing mist

P272: Contaminated work clothing should not be allowed out of the workplace

P280: Wear protective gloves/protective clothing

Precautionary Statement - Response:

P302+P352: If on skin: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: get medical attention.

P363: Wash contaminated clothing before reuse.

### 2.4 Other hazards

No other hazardous components above 1% or carcinogens above 0.1% known or anticipated by NTP, IARC, or OSHA.



# SAFETY DATA SHEET

## Banyan GFAP Kit

Page 3/10

Trade name: Banyan GFAP Kit

Product number: BC-1210

ver. 040518

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances / Component:

1. GFAP Assay Plate	Not applicable
2. GFAP Calibrator	Mixture, 0.125% ProClin 300 upon reconstitution
3. GFAP Calibrator Diluent	Mixture, 0.125% ProClin 300
4. GFAP Control 1	Mixture, 0.125% ProClin 300 upon reconstitution
5. GFAP Control 2	Mixture, 0.125% ProClin 300 upon reconstitution
6. GFAP Detection Ab	Not applicable
7. GFAP Detection Ab Diluent	Mixture, 0.125% ProClin 300
8. GFAP Assay Diluent	Mixture, 0.1% ProClin 300
9. Wash Tablet	Not applicable
10. Substrate A	Not applicable
11. Substrate B	Not applicable
12. Plate Seal	Not applicable

#### Hazardous Substance:

Chemical name	CAS No. (EC No.) [Index No.]	Amount (%) in the mixture	Classification according Regulation (EC) No 1272/2008 [CLP] (related to the concentrated form)	
			Hazard class/ Hazard categories	Hazard- statement
ProClin 300* - modified alkyl carboxylate		0.125%	Aquatic Chronic 4	H413
Mixture of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7] and 2-methyl-4 isothiazolin-3- one [EC no. 220-239-6] (3:1)	55965-84-9 --- 613-167-00-5	0.00375%	Acute Tox. 3 * Acute Tox. 3 * Acute Tox. 3 * Skin Corr. 1B Skin Sens. 1	H331 H311 H301 H314 H317
*ProClin 300 is used as preservative in the listed reagents.			Aquatic Acute 1 Aquatic Chronic 1	H400 H410

♣ **ProClin 300 contains active ingredients:** mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4 isothiazolin-3-one [EC no. 220-239-6] (3:1). The Classification of this mixture at the contained concentration of 0.00375% ( $0.0015\% \leq C \leq 0.06\%$ ) is Skin Sensitization (Category 1), H317.

Full text of H- phases: see section 16.



## SAFETY DATA SHEET Banyan GFAP Kit

Page 4/10

Trade name: Banyan GFAP Kit

Product number: BC-1210

ver. 040518

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measure

General information	No special measures required
If inhaled	Supply fresh air. If not breathing, give artificial respiration. In case of severe disturbance, consult a physician.
Following skin contact	Rinse skin with plenty of water. Remove contaminated clothing and protective gloves. Wash clothes thoroughly before reuse. Clean shoes. In case of severe disturbance, consult a physician
Following eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Appropriate extinguishing media include: Alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Sodium oxides, Phosphor oxides, Hydrogen chloride gas.

#### 5.3 Advice for firefighters

**Advice for firefighters** Wear self-contained breathing apparatus for firefighting.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### 6.2 Environmental precautions

Dilute with plenty of water. Do not let product enter drains.



## SAFETY DATA SHEET Banyan GFAP Kit

Page 5/10

**Trade name:** Banyan GFAP Kit

**Product number:** BC-1210

ver. 040518

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Refer to section 8 for information on personal protection equipment.

Refer to section 13 for disposal information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid direct contact with skin and eyes. Avoid inhalation of vapour or mist. Use all reagents in accordance with the relevant package insert.

### 7.2 Conditions for safe storage, including any incompatibilities

Store all reagents at 2-8°C as instructed in the relevant package insert.

### 7.3 Specific end use

For professional in vitro diagnostic use only

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### 8.2 Exposure controls

The usual precautionary measures for handling chemicals should be followed.

Keep away from food, beverages and feed.

Wash hands before breaks and at the end of work.

#### **Personal protective equipment:**

**Eye/face protection** Wear tightly fitting safety goggles with side shields.

**Respiratory protection** Not required

**Hand protection** Wear protective gloves, vinyl or rubber gloves are recommended.  
Dispose of contaminated gloves after use in accordance with good laboratory practices.

Wash and dry hands.

**Skin and body protection** Wear lab coat. Immediately remove all contaminated clothing and wash before reuse.



**SAFETY DATA SHEET**  
**Banyan GFAP Kit**

Page 6/10

**Trade name:** Banyan GFAP Kit

**Product number:** BC-1210

ver. 040518

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 General Information**

Component	Physical State	Color	Odor
1. GFAP Assay Plate	Plastic plate	White	None
2. GFAP Calibrator	Lyophilized	Blue colored	None
3. GFAP Calibrator Diluent	Liquid	Clear, colorless to amber-colored	None
4. GFAP Control 1	Lyophilized	Orange colored	None
5. GFAP Control 2	Lyophilized	Orange colored	None
6. GFAP Detection Ab	Liquid	Amber-colored	None
7. GFAP Detection Ab Diluent	Liquid	Red-colored	None
8. GFAP Assay Diluent	Liquid	Clear, colorless	None
9. Wash Tablet	Lyophilized buffer tablet	White	None
10. Substrate A	Liquid	Clear, colorless	None
11. Substrate B	Liquid	Clear, colorless	None
12. Plate Seal	Plastic adhesive seal	Clear	None

**9.2 Chemical Properties:**

pH	1. GFAP Assay Plate	Not applicable
	2. GFAP Calibrator (upon reconstitution)	7 - 8
	3. GFAP Calibrator Diluent	7 - 8
	4. GFAP Control 1 (upon reconstitution)	7 - 8
	5. GFAP Control 2 (upon reconstitution)	7 - 8
	6. GFAP Detection Ab	6 - 7
	7. GFAP Detection Ab Diluent	6 - 7
	8. GFAP Assay Diluent	7 - 8
	9. Wash (in solution)	7 - 8
	10. Substrate A	8.4 – 9.2
	11. Substrate B	8.4 – 9.2
	12. Plate Seal	Not applicable
Boiling Point	1. GFAP Assay Plate	Not applicable
	2. GFAP Calibrator (upon reconstitution)	Lowest known value (water): 100°C/212°F
	3. GFAP Calibrator Diluent	
	4. GFAP Control 1 (upon reconstitution)	
	5. GFAP Control 2 (upon reconstitution)	
	6. GFAP Detection Ab	
	7. GFAP Detection Ab Diluent	
	8. GFAP Assay Diluent	
	9. Wash (in solution)	
	10. Substrate A	
	11. Substrate B	
	12. Plate Seal	Not applicable



**SAFETY DATA SHEET**  
**Banyan GFAP Kit**

<b>Trade name:</b>	Banyan GFAP Kit	
<b>Product number:</b>	BC-1210	ver. 040518

Melting Point	1. GFAP Assay Plate	Not applicable
	2. GFAP Calibrator (upon reconstitution)	May melt at 0°C/32°F. This specification is based on the ingredient water.
	3. GFAP Calibrator Diluent	
	4. GFAP Control 1 (upon reconstitution)	
	5. GFAP Control 2 (upon reconstitution)	
	6. GFAP Detection Ab	
	7. GFAP Detection Ab Diluent	
	8. GFAP Assay Diluent	
	9. Wash (in solution)	
	10. Substrate A	
	11. Substrate B	
	12. Plate Seal	Not applicable
Solubility	1. GFAP Assay Plate	Not applicable
	2. GFAP Calibrator (upon reconstitution)	Complete solubility in cold or hot water.
	3. GFAP Calibrator Diluent	
	4. GFAP Control 1 (upon reconstitution)	
	5. GFAP Control 2 (upon reconstitution)	
	6. GFAP Detection Ab	
	7. GFAP Detection Ab Diluent	
	8. GFAP Assay Diluent	
	9. Wash (in solution)	
	10. Substrate A	
	11. Substrate B	
	12. Plate Seal	Not applicable
Vapour Pressure	1. GFAP Assay Plate	Not applicable
	2. GFAP Calibrator (upon reconstitution)	23.4 mbar at 20°C/68°F. This specification is based on the ingredient water.
	3. GFAP Calibrator Diluent	
	4. GFAP Control 1 (upon reconstitution)	
	5. GFAP Control 2 (upon reconstitution)	
	6. GFAP Detection Ab	
	7. GFAP Detection Ab Diluent	
	8. GFAP Assay Diluent	
	9. Wash (in solution)	
	10. Substrate A	
	11. Substrate B	
	12. Plate Seal	Not applicable

No Available Data: To flash point, evaporation rate, explosion limits, ignition temperatures, viscosity, oxidizing properties, density, partition coefficient (n-octanol/water).

**9.3 Other information**

No other information available.



**SAFETY DATA SHEET**  
**Banyan GFAP Kit**

Page 8/10

**Trade name:** Banyan GFAP Kit

**Product number:** BC-1210

ver. 040518

**10. STABILITY AND REACTIVITY**

<b>10.1 <u>Reactivity</u></b>	No data available
<b>10.2 <u>Chemical stability</u></b>	Stable under recommended storage conditions
<b>10.3 <u>Possibility of hazardous reactions</u></b>	No data available
<b>10.4 <u>Conditions to avoid</u></b>	Strong oxidizing agents, reducing agents, Amines,
<b>10.5 <u>Incompatible materials</u></b>	No materials known
<b>10.6 <u>Hazardous decomposition</u></b>	Hazardous decomposition products formed under fire Products conditions - Carbon oxides, nitrogen oxides, Sulphur oxides, Hydrogen chloride gas.

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

a) Acute toxicity:	No data available.
b) Skin corrosion/irritation	No data available.
c) Respiratory or skin sensitisation:	May cause allergic skin reaction.
d) Germ cell mutagenicity:	No data available
e) Carcinogenicity:	No data available
f) Reproductive toxicity:	No data available
g) Specific target organ toxicity-single exposure:	No data available
h) Specific target organ toxicity-repeated exposure	No data available
i) Aspiration hazard	No data available.

**12. ECOLOGICAL INFORMATION**

<b>12.1 <u>Toxicity</u></b>	No further relevant information available
<b>12.2 <u>Persistence and degradability</u></b>	No further relevant information available
<b>12.3 <u>Bioaccumulative potential</u></b>	No further relevant information available
<b>12.4 <u>Mobility in soil</u></b>	No further relevant information available
<b>12.5 <u>Results of PBT and vPvB assessment</u></b>	Not applicable
<b>12.6 <u>Other adverse effects</u></b>	No further relevant information available





**SAFETY DATA SHEET**  
**Banyan GFAP Kit**

Page 9/10

**Trade name:** Banyan GFAP Kit

**Product number:** BC-1210

ver. 040518

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product:**

Dispose of waste according to applicable local, state, and federal regulations.

**Contaminated packaging:**

Dispose of waste according to applicable local, state, and federal regulations.

**14. TRANSPORT INFORMATION**

This product is not subject to official transport regulations.

<b>14.1 UN number</b>	None
<b>14.2 UN proper shipping name</b>	None
<b>14.3 Transport hazard class(es)</b>	None
<b>14.4 Packing group</b>	None
<b>14.5 Environmental hazards</b>	None
<b>14.6 Special precautions for user</b>	Not applicable

**15. REGULATORY INFORMATION**

**This Safety Data Sheet is according to:**

29 CFR 1910.1200	Hazard Communication
1907/2006/EC	Registration, evaluation and authorization of chemicals regulation (REACH)
1272/2008/EC	Classification, labelling and packaging regulation (CLP, globally harmonized system GHS) replaces 67/548/EEC and 1999/45/EC, amending 1907/2006/EC
453/2010/EC	Compilation of safety data sheets regulation (SDS), amending 1907/2006/EC

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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**15.2 Chemical safety assessment**

Not applicable



**SAFETY DATA SHEET**  
**Banyan GFAP Kit**

Page 10/10

**Trade name:** Banyan GFAP Kit

**Product number:** BC-1210

ver. 040518

**16. OTHER INFORMATION**

**16.1 "H code" used in this Safety Data Sheet**

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long-lasting harmful effects to aquatic life

**Note:** H317 is the Hazard Statement Code for the components that contain ProClin 300 or its active ingredients.

All the other H codes above are supplied for reference only as they are valid for the concentrated chemical only and are not applicable to the concentrations supplied.

**NFPA Rating**

Health Hazard: 2  
Fire Hazard: 0  
Reactive Hazard: 0

**16.2 Legal disclaimer**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above product/reagents.