
Kit Components

Cat. No.	Description
L00659-1	eStain L1 Protein Staining Kit

Components:	
M00548-1	eStain [®] L1 Staining Solution
M00549-1	eStain [®] L1 Destaining Solution

SAFETY DATA SHEET

Date Created 20180416
Date Updated
Version 1.0

Section 1-Identification of the substance/mixture and of the company/undertaking

1.1 Identification of the substance or mixture

Product code : M00548-1
Product name : eStain® L1 Staining Solution

1.2 Company/undertaking identification

GenScript Technologies :

1.3 24 hour Emergency Response:

Emergency Phone #: 1-732-885-9188
Telephone : 1-877-436-7274
Fax : 1-732-210-0262
E-mail address : product@genscript.com
Web : <http://www.genscript.com>

1.4 For Research Use Only. Not for use in diagnostic procedures.

Section 2- Hazards identification

2.1 GHS - Classification

Signal Word

Danger

Health hazards

Not classified

Physical hazards

Flammable liquids

Hazard Statements

Highly flammable liquid and vapour.

Causes serious eye irritation.

Precautionary Statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash skin thoroughly after handling.

Wear protective gloves/ eye protection/ face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/ container to an approved waste disposal plant.

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Health Effects**Eyes**

May causes serious eye irritation.

Skin

Absorption may be harmful through the skin. May cause skin irritation.

Inhalation

May be harmful by inhalation.

Ingestion

May be harmful. May cause irritation to the respiratory tract.

2.3 Specific effects**Carcinogenic effects**

None.

Mutagenic effects

None.

Reproductive toxicity

None.

Sensitization

none

Target Organ Effects

No known effects under normal use conditions.

2.4 HMIS

Health	2
Flammability	3
Reactivity	0

Section 3- Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
Ethanol	64-17-5	200-578-6	25-45%
Acetic acid	64-19-7	200-580-7	5-10%
Coomassie brilliant blue	6104-59-2	228-060-5	0.01-0.1%

R-250

Section 4- First aid measures**4.1 Skin contact**

Rinse cautiously with water for several minutes. Immediate medical attention is not required.

4.2 Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

4.3 Ingestion

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.4 Inhalation

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

4.4 Notes to Physician

Treat symptomatically.

Section 5- Firefighting measures**5.1 Suitable extinguishing media**

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Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

5.2 Special protective equipment for firefighters

Standard procedure for chemical fires.

Section 6- Accidental release measures

6.1 Personal precautions

Always wear recommended Personal Protective Equipment. Use personal protection equipment.

6.2 Methods for cleaning up

Soak up with inert absorbent material.

6.3 Environmental precautions

No special environmental precautions required.

See Section 12 for more information.

Section 7- Handling and storage

7.1 Handling

Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

7.2 Storage

Keep in a dry, cool and well-ventilated place.

Keep container closed when not in use.

Section 8- Exposure controls/personal protection

8.1 Exposure Limits

Chemical Name	PEL	REL	TLV
Ethanol	1900 mg/m ³ , 1000 ppm	1900 mg/m ³ , 1000 ppm	Short-term value: 1880 mg/m ³ , 1000 ppm
Acetic acid	25 mg/m ³ , 10 ppm	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm

8.2 Engineering measures

Ensure adequate ventilation, especially in confined areas.

8.3 Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Impervious gloves.

Eye protection

Wear safety glasses with side shields (or goggles).

Skin and Body Protection

Lightweight protective clothing.

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Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

8.4 Environmental exposure controls

No special environmental precautions required.

Section 9- Physical and chemical properties**9.1 General information**

Form	Liquid
Appearance	Blue
Odor	Pungent
Odor Threshold	No data available
Boiling point / boiling range	°C No data available °F 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
Oxidizing properties	No data available
Water solubility	completely miscible with water

10.1 Stability

Stable under normal conditions.

10.2 Materials to avoid

No dangerous reaction known under conditions of normal use.

10.3 Hazardous decomposition

None under normal use conditions.

10.4 Products polymerization

Hazardous polymerization does not occur.

Section 11-Toxicological information**11.1 Acute Toxicity**

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Ethanol	10,470 mg/kg (Rat)	15,800 mg/kg (Rabbit)	4 h - 30,000 mg/l (Rat)
Acetic acid	3,310 mg/kg (rat)	1,112 mg/kg (Rabbit)	4 h - 11.4 mg/l (Rat)

No toxicology information is available.

11.2 Principle Routes of Exposure Potential Health Effects

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eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.

Section 12- Ecological information

12.1 Ecotoxicity	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
12.2 Mobility	No information available.
12.3 Biodegradation	Inherently biodegradable.
12.4 Bioaccumulation	Material does not bioaccumulate.

Section 13- Disposal considerations

Dispose of contents/containers in accordance with local regulations.

Section 14- Transport information
14.1 IATA

Proper Shipping Name	eStain® L1 Staining Solution
Hazard Class	3
Subsidiary class	None
Packing group	II
UN-No	UN1170

Section 15- Regulatory information
15.1 US Federal Regulations
SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

15.2 US State Regulations

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Ethanol 64-17-5	2007-03-01	2007-03-01	2007-03-01
Acetic acid	1993-04-24	1993-04-24	1993-04-24

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California Proposition 65

This product does not contain any Proposition 65 chemicals.

15.3 WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Section 16- Other information**16.1 Reason for revision**

SDS sections updated.

For Research Use Only. Not for use in diagnostic procedures.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

SAFETY DATA SHEET

Date Created 20180416
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Version 1.0

Section 1-Identification of the substance/mixture and of the company/undertaking

1.1 Identification of the substance or mixture

Product code : M00549-1
Product name : eStain® L1 Destaining Solution

1.2 Company/undertaking identification

GenScript Technologies :

1.3 24 hour Emergency Response:

Emergency Phone #: 1-732-885-9188
Telephone : 1-877-436-7274
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Section 2- Hazards identification

2.1 GHS - Classification

Signal Word

Warning

Health hazards

Not classified

Hazard Statements

H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary Statements

P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321 - Specific treatment (see ... on this label)
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention
P362 + P364 - Take off contaminated clothing and wash it before reuse

2.2 Other hazards

Other hazards not contributing to the classification: **None.**

2.4 HMIS

Health	1
Flammability	0
Physical	0
Personal protection	B

B – Safety glasses, Gloves

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Section 3- Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
Acetic acid	64-19-7	200-580-7	5-10%
Water	7732-18-5	231-791-2	90-95%

Section 4- First aid measures**4.1 Skin contact**

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

4.2 Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

4.3 Ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.4 Inhalation

Allow victim to breathe fresh air. Allow the victim to rest.

Section 5- Firefighting measures**5.1 Suitable extinguishing media**

Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

5.2 Special protective equipment for firefighters

Standard procedure for chemical fires.

Section 6- Accidental release measures**6.1 Personal precautions**

Always wear recommended Personal Protective Equipment. Use personal protection equipment.

6.2 Methods for cleaning up

Soak up with inert absorbent material.

6.3 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Section 7- Handling and storage**7.1 Handling**

Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

7.2 Storage

Keep in a dry, cool and well-ventilated place.

Keep container closed when not in use.

Section 8- Exposure controls/personal protection**8.1 Exposure Limits**

Chemical Name	PEL	REL	TLV
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Acetic acid	25 mg/m ³ , 10 ppm	Short-term value: 37 mg/m ³ , 15 ppm	Short-term value: 37 mg/m ³ , 15 ppm
		Long-term value: 25 mg/m ³ , 10 ppm	Long-term value: 25 mg/m ³ , 10 ppm

8.2 Personal Protective Equipment

Appropriate engineering controls	:	Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	:	Safety glasses. Gloves.
Hand protection	:	Wear protective gloves.
Eye protection	:	Chemical goggles or safety glasses.
Respiratory protection	:	Respiratory protection not required in normal conditions.
Other information	:	Do not eat, drink or smoke during use.

Section 9- Physical and chemical properties

9.1 General information

Form	Liquid
Appearance	colourless
Odor	Vinegar odour
Odor Threshold	No data available
Boiling point / boiling range	°C No data available °F 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
Oxidizing properties	No data available
Water solubility	completely miscible with water

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizers. Strong bases. metals.

10.6. Hazardous decomposition products

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Carbon monoxide. Carbon dioxide.

Section 11-Toxicological information

11.1 Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Acetic acid	3,310 mg/kg (rat)	1,112 mg/kg (Rabbit)	4 h - 11.4 mg/l (Rat)

No toxicology information is available.

11.2 Principle Routes of Exposure Potential Health Effects

eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.

Section 12- Ecological information

12.1 Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.2 Mobility

No information available.

12.3 Biodegradation

Inherently biodegradable.

12.4 Bioaccumulation

Material does not bioaccumulate.

Section 13- Disposal considerations

Dispose of contents/containers in accordance with local regulations.

Section 14- Transport information

Proper Shipping Name

eStain[®] L1 Destaining Solution

Not dangerous goods

Section 15- Regulatory information

15.1 US Federal Regulations**SARA 313**

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

15.2 US State Regulations

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Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Acetic acid	1993-04-24	1993-04-24	1993-04-24

California Proposition 65

This product does not contain any Proposition 65 chemicals.

15.3 WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Section 16- Other information

16.1 Reason for revision

SDS sections updated.

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