Material Safety Data Sheet

Catalog Number: CTG-PA002 Bradford Protein Assay Kit

1. Product and Company Identification

Trade Name: Bradford Protein Assay Kit
Catalog Number: CTG-PA002
Manufacturer/Supplier: Celltechgen LLC
14780 Memorial Drive, Suite 210
Houston, TX 77079, USA
Tel: 1-877-994-4100
Email:info@celltechgen.com

Components

Item Number	Name	Quantity
CTG-PA002	Reagent	20.0 mL
	Standard	1.0 mL

2. Hazards Identification

Mixture of the following substances with non-hazardous additions.

Reagent

Brilliant Blue G (CAS #: 6104-58-1)	<0.05%
Ethanol (CAS #: 64-17-5)	25.00%
Phosphoric acid (CAS #: 9002-93-1)	48.00%
Triton X-100 (CAS #: 7664-38-2)	<0.05%

Standard

Bovine serum albumin (CAS #: 9048-46-8)	0.500%

Health Hazard Data: corrosive. Harmful in contact with skin and eyes.
Avoid contact and inhalation. Standard laboratory safety procedures should be followed when handling this product. Safety procedures include wearing OSHA approved safety glasses, gloves and protective clothing.

3. First Aid Measures

If eye or skin contact occurs, immediately wash affected area with soap and copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician to seek medical advice.

If swallowed, wash out mouth with water provided person is conscious and call a physician to seek medical advice. If inhaled, move individual to fresh air and call a physician to seek medical advice.

4. Fire Fighting Measures

Extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.
Special firefighting procedures: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual fire and explosion hazards: emits toxic fumes under fire conditions.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local cir-cumstances and the surrounding environment.
Specific hazards during fire: No information available.
fighting
Hazardous combustion prod-: No hazardous combustion products are known ucts

Further information: Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local cir-cumstances and the surrounding environment.
Special protective equipment: Wear self-contained breathing apparatus for firefighting if
for fire-fighters necessary.

6. Accidental Release Measures
Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

7. HANDLING AND STORAGE
Advice on protection against : Normal measures for preventive fire protection.
fire and explosion
Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the ap-plication area.

Conditions for safe storage: Electrical installations / working materials must comply with the technological safety standards.

Technical
measures/Precautions: See label, package insert or internal guidelines

Materials to avoid: No materials to be especially mentioned.
Further information on storage stability:No decomposition if stored and applied as directed.

8. Exposure Controls / Personal Protection
Keep away from foodstuffs and beverages. Wash hands before and after the work. Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance : liquid
Color : clear, blue
Odor : very faint
Odor Threshold : No data available
pH : 7.2 - 7.6
Melting point/range :No data available
Boiling point/boiling range: No data available

Flash point: No data available
Evaporation rate : No data available
Flammability (liquids) : Does not sustain combustion.
The product is not flammable.

Self-ignition: No data available
Upper explosion limit / Upper flammability limit: No data available
Lower explosion limit / Lower flammability limit: No data available

Vapor pressure: No data available
Relative vapor density: No data available
Relative density: No data available

Solubility(ies)
Water solubility: completely miscible
Solubility in other solvents: No data available
Partition coefficient: n-octanol/water: No data available
Autoignition temperature: No data available
Decomposition temperature: No data available

Viscosity
Viscosity, dynamic: No data available
Viscosity, kinematic: No data available
Oxidizing properties: The substance or mixture is not classified as oxidizing.

10. Stability and Reactivity
Thermal Decomposition: no decomposition if used according to specifications.
Dangerous Products of Decomposition: nitrogen and carbon oxides.
Dangerous Reactions: avoid reaction with bases.

11. Toxicological Information
Inhalation: Harmful if inhaled
Ingestion: Harmful if swallowed
Skin: Causes skin irritation
Eyes: Causes eye irritation
Target Organs / Liver, nerves.
Chronic Exposures:

12. Ecological Information
Do not allow product to reach ground water, water course, or sewage system.

13. Disposal Considerations
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Consult local, state or national regulations for proper disposal.
SECTION 14. TRANSPORT INFORMATION

International Regulations
UNRTDG
Not regulated as a dangerous good
IATA-DGR
Not regulated as a dangerous good
IMDG-Code
Not regulated as a dangerous good
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable
Domestic regulation
49 CFR
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Phosphoric acid, sodium salt (1:2)	7558-79-4	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards:
No SARA Hazards

SARA 313:
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Ta-ble 116.4A:

Phosphoric acid, sodium salt (1:2)	7558-79-4	>= 0.1 - < 1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Phosphoric acid, sodium salt (1:2) `	7558-79-4	>= 0.1 - < 1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Water	7732-18-5
Phosphoric acid, sodium salt (1:2)	7558-79-4

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

DSL:	Not in compliance with the inventory
AICS:	Not in compliance with the inventory
NZIoC:	On the inventory, or in compliance with the inventory
ENCS:	Not in compliance with the inventory
ISHL:	Not in compliance with the inventory
KECI:	Not in compliance with the inventory
PICCS:	Not in compliance with the inventory
IECSC:	Not in compliance with the inventory
TCSI:	Not in compliance with the inventory
TSCA:	Not On TSCA Inventory

TSCA list

No substances are subject to a Significant New Use Rule.
No substances are subject to TSCA 12(b) export notification requirements.

14. Other Information

This material is sold for research purposes only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. 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. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Biochain Institute, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.