

ITSIPREP™ - Material Safety Data Sheet

1. Product and Company Information

Trade Name: **Quanti-Protein Assay Reagent**
Cat #: K-0014.1
Company: ITSI-Biosciences, LLC
633 Napoleon St.
Johnstown, PA 15901
Phone: 814-262-7331
Fax: 814-262-7334

2. Composition, Information on Ingredients

Name	CAS #	%
Comassie Blue G250	6104-58-1	<5.8
Phosphoric Acid	7664-38-2	<9
Methanol	67-56-1	<6
Water	7732-18-5	<80

3. Hazards Identification

Physical State: Liquid
Emergency Overview: Danger! Contains material which causes damage to the following organs: lungs, gastrointestinal tract, respiratory tract, skin, eyes, central nervous system, eye lens or cornea. May be harmful if inhaled, absorbed through skin or swallowed.

Potential Health Effects:

Eyes: Causes eye irritation.
Skin: May cause skin irritation.
Ingestion: Causes irritation.
Inhalation: May cause respiratory tract irritation.

4. First Aid Measures

After Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
After Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If irritation develops, get medical attention.
After Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious individual. Get medical attention.
After Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Agents: CO₂, extinguishing powder or water spray or chemical foam
Protective Equipment: Wear appropriate protective equipment and self-contained breathing apparatus with a full face piece operated in positive pressure mode.

6. Accidental Release Measures

Personal Precautions: Use suitable protective equipment.
Methods for Cleaning: Absorb spills with liquid-binding material and place in an appropriate disposal container.

7. Handling and Storage

Handling: Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area away from incompatible substances.

8. Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Provide exhaust ventilation to keep airborne concentrations low.

Personal Protection:

Eyes: Wear appropriate safety eyewear complying with approved standards to avoid exposure to liquid splashed, mists or dusts.

Skin: Wear appropriate protective gloves and clothing to avoid exposure to the skin.

Respiratory: Wear properly fitted respirator complying with approved standards when necessary.

Exposure Limits:

Name	ACGIH	NIOSH	OSHA
Comassie Blue G250	None Listed	None Listed	None Listed
Phosphoric Acid	1 mg/m ³ ; 3 mg/m ³ STEL	1 mg/m ³ TWA 1000 mg/m ³ IDLH	1 mg/m ³ TWA
Methanol	200 ppm; 250 ppm STEL; skin-potential for cutaneous absorption	200 ppm TWA; 260 mg/m ³ TWA 6000 ppm IDLH	200 ppm TWA; 260 mg/m ³ TWA
Water	None Listed	None Listed	None Listed

9. Physical and Chemical Properties

Physical State: Liquid
 Color: Not Available
 Odor: Not Available
 pH: Not Available
 Vapor Pressure: Not Available
 Vapor Density: Not Available
 Evaporation Rate: Not Available
 Viscosity: Not Available
 Boiling Point: Not Available
 Freezing/Melting Point: Not Available

10. Stability and Reactivity

Stability: Stable
 Incompatibility with Various Substances: Reactive with organic materials.
 Hazardous Decomposition Products: Not applicable.
 Hazardous Polymerization: Will not occur.

11. Toxicological Information

Name	Test	Result	Route	Species
Comassie Blue G250	Not Available			
Phosphoric Acid	LD50	1530 mg/kg	Oral	Rat
Methanol	LD50	5600 mg/kg	Oral	Rat
Water	LD50	>90 ml/kg	Oral	Rat

12. Ecological Information

No information available.

13. Disposal Consideration

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste and must consult local and state waste regulations to comply with all requirements.

14. Transport Information

No information available.

15. Regulatory Information

U.S. Federal Regulations:

TSCA: all of the chemicals are listed on the TSCA inventory.

Health and Safety Reporting List: none of the chemicals are listed.

Chemical Test Rules: none of the chemicals are listed.

Section 12b: none of the chemicals are listed.

SNUR: none of the chemicals are listed.

SERA:

CERCLA Hazardous Substances and corresponding RQS:

Phosphoric Acid and Methanol: 5000 lb final RQ, 2270 kg final RQ

Section 302 Extremely Hazardous Substances:

None of the chemicals have a TPQ

SARA Codes:

Phosphoric Acid: acute

Methanol: acute, flammable

Section 313:

Methanol: subject to the reporting requirements of Section 313 of SARA

Title III and 40 CFR Part 372.

Clean Air Act:

Methanol is listed as a hazardous air pollutant.

None of the chemicals contain Class 1 or Class 2 Ozone depletors.

Clean Water Act:

Phosphoric Acid is listed as a Hazardous Substance under the CWA.

None of the chemicals are listed as Priority Pollutants or Toxic Pollutants under the CWA.

OSHA:

None of the chemicals are considered highly hazardous by OSHA.

16. Other Information

The information contained herein is believed to be accurate and represents the best information currently available to us. The supplier does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

ITSIPREP™ Material Safety Data Sheet

1. Product and Company Information

Trade Name: **Standard Curve Reagents**
Cat #: K-0014.2
Company: ITSI-Biosciences, LLC
633 Napoleon St.
Johnstown, PA 15901
Phone: 814-262-7331
Fax: 814-262-7334

2. Composition, Information on Ingredients

Name	CAS #	%
Bovine Serum Albumin	9048-46-8	<5
Sodium Azide	26628-22-8	<0.1
Water	7732-18-5	<100

3. Hazards Identification

Physical State: Liquid
Emergency Overview: Causes eye and skin irritation.
Target Organs: None
Potential Health Effects:
Eyes: Causes eye irritation.
Skin: Causes skin irritation.
Ingestion: No known significant effects.
Inhalation: No known significant effects.

4. First Aid Measures

After Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
After Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If irritation develops, get medical attention.
After Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious individual. Get medical attention.
After Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Agents: CO₂, extinguishing powder or water spray or chemical foam
Protective Equipment: Wear appropriate protective equipment and self-contained breathing apparatus with a full face piece operated in positive pressure mode.

6. Accidental Release Measures

Personal Precautions: Use suitable protective equipment.
Methods for Cleaning: Absorb spills with liquid-binding material and place in an appropriate disposal container.

7. Handling and Storage

- Handling: Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.
- Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area away from incompatible substances.

8. Exposure Controls, Personal Protection

- Engineering Controls: Provide exhaust ventilation to keep airborne concentrations low.
- Personal Protection:
- Eyes: Wear appropriate safety eyewear complying with approved standards to avoid exposure to liquid splashed, mists or dusts.
- Skin: Wear appropriate protective gloves and clothing to avoid exposure to the skin.
- Respiratory: Wear properly fitted respirator complying with approved standards when necessary.
- Exposure Limits: Not Available

9. Physical and Chemical Properties

- Physical State: Liquid
- Color: Not Available
- Odor: Not Available
- pH: Not Available
- Vapor Pressure: Not Available
- Vapor Density: Not Available
- Evaporation Rate: Not Available
- Viscosity: Not Available
- Boiling Point: Not Available
- Freezing/Melting Point: Not Available

10. Stability and Reactivity

- Stability: Stable
- Incompatibility with Various Substances: Slightly reactive with oxidizing agents.
- Hazardous Decomposition Products: Not Available.
- Hazardous Polymerization: Will not occur.

11. Toxicological Information

Name	Test	Result	Route	Species
Sodium Chloride	LD50	4000 mg/kg	Oral	Mouse
Sodium Azide	LD50	27 mg/kg	Oral	Rat
Milli-Q-Water	LD50	>90 ml/kg	Oral	Rat

Carcinogenicity: No known significant effects.

12. Ecological Information

No information available.

13. Disposal Consideration

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste and must consult local and state waste regulations to comply with all requirements.

14. Transport Information

No information available.

15. Regulatory Information

U.S. Federal Regulations:

TSCA: All of the chemicals are listed on the TSCA inventory.

Health and Safety Reporting List: none of the chemicals are listed.

Chemical Test Rules: none of the chemicals are listed.

Section 12b: none of the chemicals are listed.

SNUR: none of the chemicals are listed.

SERA:

CERCLA Hazardous Substances and corresponding RQS:

None of the chemicals have a RQ.

Section 302 Extremely Hazardous Substances:

None of the chemicals have a TPQ

Section 313:

None of the chemicals are reported.

Clean Air Act:

None of the chemicals contain any hazardous air pollutants, Class 1 or

Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals are listed as Priority Pollutants or Toxic Pollutants under the CWA.

OSHA:

None of the chemicals are considered highly hazardous by OSHA.

16. Other Information

The information contained herein is believed to be accurate and represents the best information currently available to us. The supplier does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

ITSIPREP™ Material Safety Data Sheet

1. Product and Company Information

Trade Name: **2000ug/mL Standard Curve Reagent**
Cat #: K-0014.3
Company: ITSI-Biosciences, LLC
633 Napoleon St.
Johnstown, PA 15901
Phone: 814-262-7331
Fax: 814-262-7334

2. Composition, Information on Ingredients

Name	CAS #	%
Bovine Serum Albumin	9048-46-8	<5
Sodium Azide	26628-22-8	<0.1
Water	7732-18-5	<100

3. Hazards Identification

Physical State: Liquid
Emergency Overview: Causes eye and skin irritation.
Target Organs: None
Potential Health Effects:
Eyes: Causes eye irritation.
Skin: Causes skin irritation.
Ingestion: No known significant effects.
Inhalation: No known significant effects.

4. First Aid Measures

After Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
After Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If irritation develops, get medical attention.
After Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious individual. Get medical attention.
After Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Agents: CO₂, extinguishing powder or water spray or chemical foam
Protective Equipment: Wear appropriate protective equipment and self-contained breathing apparatus with a full face piece operated in positive pressure mode.

6. Accidental Release Measures

Personal Precautions: Use suitable protective equipment.
Methods for Cleaning: Absorb spills with liquid-binding material and place in an appropriate disposal container.

7. Handling and Storage

- Handling: Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.
- Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area away from incompatible substances.

8. Exposure Controls, Personal Protection

- Engineering Controls: Provide exhaust ventilation to keep airborne concentrations low.
- Personal Protection:

Eyes: Wear appropriate safety eyewear complying with approved standards to avoid exposure to liquid splashed, mists or dusts.

Skin: Wear appropriate protective gloves and clothing to avoid exposure to the skin.

Respiratory: Wear properly fitted respirator complying with approved standards when necessary.

Exposure Limits: Not Available

9. Physical and Chemical Properties

- Physical State: Liquid
- Color: Not Available
- Odor: Not Available
- pH: Not Available
- Vapor Pressure: Not Available
- Vapor Density: Not Available
- Evaporation Rate: Not Available
- Viscosity: Not Available
- Boiling Point: Not Available
- Freezing/Melting Point: Not Available

10. Stability and Reactivity

- Stability: Stable
- Incompatibility with Various Substances: Slightly reactive with oxidizing agents.
- Hazardous Decomposition Products: Not Available.
- Hazardous Polymerization: Will not occur.

11. Toxicological Information

Name	Test	Result	Route	Species
Sodium Chloride	LD50	4000 mg/kg	Oral	Mouse
Sodium Azide	LD50	27 mg/kg	Oral	Rat
Milli-Q-Water	LD50	>90 ml/kg	Oral	Rat

Carcinogenicity: No known significant effects.

12. Ecological Information

No information available.

13. Disposal Consideration

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste and must consult local and state waste regulations to comply with all requirements.

14. Transport Information

No information available.

15. Regulatory Information

U.S. Federal Regulations:

TSCA: All of the chemicals are listed on the TSCA inventory.
Health and Safety Reporting List: none of the chemicals are listed.
Chemical Test Rules: none of the chemicals are listed.
Section 12b: none of the chemicals are listed.
SNUR: none of the chemicals are listed.

SERA:

CERCLA Hazardous Substances and corresponding RQS:

None of the chemicals have a RQ.

Section 302 Extremely Hazardous Substances:

None of the chemicals have a TPQ

Section 313:

None of the chemicals are reported.

Clean Air Act:

None of the chemicals contain any hazardous air pollutants, Class 1 or

Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals are listed as Priority Pollutants or Toxic
Pollutants under the CWA.

OSHA:

None of the chemicals are considered highly hazardous by OSHA.

16. Other Information

The information contained herein is believed to be accurate and represents the best information currently available to us. The supplier does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

ITSIPREP™ - Material Safety Data Sheet

1. Product and Company Information

Trade Name: **Solublization Buffer**
Cat #: K-0014.4
Company: ITSI-Biosciences, LLC
633 Napoleon St.
Johnstown, PA 15901
Phone: 814-262-7331
Fax: 814-262-7334

2. Composition, Information on Ingredients

Name	CAS #	%
Urea	57-13-6	<2.0
Sodium Dodecyl Sulfate	151-21-3	<0.02
Water	7732-18-5	<100

3. Hazards Identification

Physical State: Liquid
Emergency Overview: May cause eye, skin, and respiratory tract irritation.
Target Organs: Skin, eye, lens or cornea.
Potential Health Effects:
Eyes: Causes eye irritation.
Skin: May cause skin irritation.
Ingestion: May cause gastrointestinal irritation.
Inhalation: May cause respiratory tract irritation.

4. First Aid Measures

After Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
After Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If irritation develops, get medical attention.
After Ingestion: If individual is conscious and alert, give water. Never give anything by mouth to an unconscious individual. Get medical attention.
After Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Agents: CO₂, extinguishing powder or water spray or chemical foam.
Protective Equipment: Wear appropriate protective equipment and self-contained breathing apparatus with a full face piece operated in positive pressure mode.

6. Accidental Release Measures

Personal Precautions: Use suitable protective equipment.
Methods for Cleaning: Absorb spills with liquid-binding material and place in an appropriate disposal container.

7. Handling and Storage

Handling: Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area away from incompatible substances.

8. Exposure Controls, Personal Protection

Engineering Controls: Provide exhaust ventilation to keep airborne concentrations low. Access to a safety shower and eye-wash.

Personal Protection:

Eyes: Wear appropriate safety eyewear complying with approved standards to avoid exposure to liquid splashed, mists or dusts.

Skin: Wear appropriate protective gloves and clothing to avoid exposure to the skin.

Respiratory: Wear properly fitted respirator complying with approved standards when necessary.

Exposure Limits:

Name	ACGIH	NIOSH	OSHA
Urea	None Listed	None Listed	None Listed
Sodium Dodexyl Sulfate	None Listed	None Listed	None Listed
Water	None Listed	None Listed	None Listed

9. Physical and Chemical Properties

Physical State: Liquid

Color: Not Available

Odor: Not Available

pH: Not Available

Vapor Pressure: Not Available

Vapor Density: Not Available

Evaporation Rate: Not Available

Viscosity: Not Available

Boiling Point: Not Available

Freezing/Melting Point: Not Available

10. Stability and Reactivity

Stability: Stable

Incompatibility with Various Substances:

Sodium Dodexyl Sulfate is incompatible with oxidizing agents and mineral acids.

Hazardous Decomposition Products:

Sodium Dodexyl Sulfate when heated: sulfur dioxide, carbon monoxide and carbon dioxide.

Hazardous Polymerization:

Will not occur.

11. Toxicological Information

Name	Test	Result	Route	Species
Urea	LD50	8471 mg/kg	Oral	Rat
Sodium Dodexyl Sulfate	LD50	1288 mg/kg	Oral	Rat
Water	LD50	>90 ml/kg	Oral	Rat

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP or OSHA

12. Ecological Information

Urea: Daphnia magna, EC50, 48 Hr, 3910 mg/l; Poecilia reticulata, LC50, 96 Hr, 17500 mg/l.

13. Disposal Consideration

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste and must consult local and state waste regulations to comply with all requirements.

14. Transport Information

No information available.

15. Regulatory Information

U.S. Federal Regulations:

TSCA: All of the chemicals are listed on the TSCA inventory.
Health and Safety Reporting List: none of the chemicals are listed.
Chemical Test Rules: none of the chemicals are listed.
Section 12b: none of the chemicals are listed.
SNUR: none of the chemicals are listed.

SERA:

CERCLA Hazardous Substances and corresponding RQS:

Not Available.

Section 302 Extremely Hazardous Substances:

None of the chemicals have a TPQ

SARA Codes:

Urea: Immediate – acute, delayed - chronic

Section 313:

None of the chemicals are reported.

Clean Air Act:

None of the chemicals contain any hazardous air pollutants, Class 1 or

Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals are listed as Priority Pollutants or Toxic
Pollutants under the CWA.

OSHA:

None of the chemicals are considered highly hazardous by OSHA.

16. Other Information

The information contained herein is believed to be accurate and represents the best information currently available to us. The supplier does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.