

SAFETY DATA SHEET (SDS)

P51 glow lab™

Issue date: 09-07-2025

Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	P51 Enzyme lab™: β-Gal Glow™
Product Codes:	KT-1900-02
Other means of identification:	
External product name and code/s:	
Manufacturer:	
Amplus LLC	1770 Massachusetts Avenue, Suite 167, Cambridge Massachusetts USA 02140 Website: www.minipcr.com
Suppliers name, address and phone number	
Suppliers Name:	Southern Biological
Suppliers ABN:	94 630 703 810
Suppliers Address:	168 Fulham Road Alphington Victoria 3078 Australia
Suppliers Phone No.:	1300 138 561
Emergency Phone number (BH)	1300 138 561
Document list:	
Product name	Number of pages
Beta Galactosidase enzyme solution	4
Buffer 1	4
Concentrated fluorescein	3
Concentrated substrate molecule	4
Dilution Buffer	4
Lactose 500mM	4
NaOH 100mM	4



SAFETY DATA SHEET (SDS)

51 Enzyme Lab – Beta-galactosidase Enzyme Solution (KT-1900-02c)

SECTION 1 — IDENTIFICATION

Product Name	Beta Galactosidase Enzyme Solution (KT-1900-02c)					
Product Use	Research and educational use only					
Supplier's Name	Amplius					
Street Address	1770 Massachusetts Avenue					
City	Cambridge	State	Massachusetts	Zip Code	02140	
Emergency Telephone Number	enter text.		Date SDS Prepared	1/10/2020	Date SDS Revised	6/1/2020
Chemtrec (USA)	800-424-9300	SDS Prepared By	BCB	Fax	8883170512	

SECTION 2 — HAZARDS IDENTIFICATION

Hazard classification:	Not a hazardous substance or mixture.
Hazard statement(s):	None
Precautionary statements (s):	None
Hazards not otherwise classified:	None
Other:	Click or tap here to enter text.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	CAS Number	Other
Beta-galactosidase enzyme	4	9031-11-2	
Proprietary buffer	>96	Proprietary	enter text.

SECTION 4 — FIRST AID MEASURES

Eye Contact	Flush eyes with water as a precaution.
Skin Contact	Wash off with soap and plenty of water.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water.
Possible Symptoms	Click or tap here to enter text.
Immediate Care	Click or tap here to enter text.
Special Treatment Needed	Click or tap here to enter text.

SECTION 5 — FIRE-FIGHTING MEASURES

Flammable	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions?	
Means of Extinction			
Hazardous Combustion Products	Not available		
Protective equipment and precautions for firefighters:	Not available.		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.
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SECTION 7 — HANDLING AND STORAGE

Handling Procedures Equipment	Avoid inhalation of vapor or mist.
	Click or tap here to enter text.
	Click or tap here to enter text.
Storage Requirements	Keep container tightly closed in a dry and well-ventilated place.Store at 4oC.
	Click or tap here to enter text.
	Click or tap here to enter text.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	<input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (Specify) enter text.
Specific Engineering Controls (such as ventilation, enclosed process)	Click or tap here to enter text.
Personal Protective Measures	Click or tap here to enter text.
Personal Protective Equipment	<p>Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).</p> <p>Skin protection: 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.</p> <p>Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p> <p>Respiratory protection: Respiratory protection is not required. Control of environmental exposure: No special environmental precautions required.</p>

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Appearance	Odor Threshold (ppm)
Liquid	Clear	No information available
Odor	Solubility	Partition coefficient
No information available	Water Soluble	No information available
Specific Gravity	Vapor Density (air = 1)	Vapor Pressure (mmHg)
No information available	No information available	No information available
Autoignition Temp (° C)	Melting Point (° C)	Flash Point (° C)
No information available	No information available	No information available
Evaporation Rate	Boiling Point (° C)	Freezing Point (° C)
No information available	No information available	No information available
pH	Relative Density	Viscosity
No information available	No information available	No information available

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions? Stable under recommended conditions.
Incompatibility with Other Substances	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, which ones?

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	No data available	
	Click or tap here to enter text.	
Effects of chronic exposure	No data available	
	Click or tap here to enter text.	
	Click or tap here to enter text.	
	Click or tap here to enter text.	
Sensitization	No data available	
	Click or tap here to enter text.	
LD50	No data available	
Carcinogenicity, reproductive toxicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen	
Other	Click or tap here to enter text.	

SECTION 12 — ECOLOGICAL INFORMATION

No data available

SECTION 13 — DISPOSAL CONSIDERATIONS

None

SECTION 14 — TRANSPORT INFORMATION

Not dangerous good during transportation

SECTION 15 — REGULATORY INFORMATION

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: 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.

SARA 311/312 Hazards: No SARA Hazards

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: Galactosidase, β - CAS-No. 9031-11-2

New Jersey Right To Know Components: Galactosidase, β - CAS-No. 9031-11-2

California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 — OTHER INFORMATION

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Amplyus LLC is not held liable for any damage resulting from handling or from contact with the above-mentioned products.

SECTION 1 — IDENTIFICATION

Product Name	Buffer 1 (KT-1900-02d)						
Product Use	Research and educational use only						
Supplier's Name	Amplius						
Street Address	1770 Massachusetts Avenue						
City	Cambridge	State	Massachusetts		Zip Code	02140	
Emergency Telephone Number	enter text.		Date SDS Prepared	1/10/2020		Date SDS Revised	6/1/2020
Chemtrec (USA)	800-424-9300		SDS Prepared By	BCB		Fax	8883170512

SECTION 2 — HAZARDS IDENTIFICATION

Hazard classification:	May be harmful if inhaled or swallowed/ May cause respiratory tract irritations. May cause skin irritation or eye irritation.						
Hazard statement(s):	None						
Precautionary statements (s):							
Hazards not otherwise classified:	None						
Other:	Click or tap here to enter text.						

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	CAS Number	Other
Trade secret	<1	Proprietary	
Trade secret	1.1%	Proprietary	
Deionized water	98.7%	7732-18-5	enter text.

SECTION 4 — FIRST AID MEASURES

Eye Contact	Flush eyes with water as a precaution. for 15-20 minutes. Remove contact lenses if possible. Seek medical attention if irritation persists or if concerned.
Skin Contact	Wash off with soap and plenty of water.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if discomfort, irritation or vomiting persists.
Possible Symptoms	Click or tap here to enter text.
Immediate Care	Click or tap here to enter text.
Special Treatment Needed	Click or tap here to enter text.

SECTION 5 — FIRE-FIGHTING MEASURES

Flammable	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions?	Click or tap here to enter text.
Means of Extinction	Use Water, dry chemical, chemical foam, carbon dioxide or alcohol resistant foam		
Hazardous Combustion Products	Sodium oxide, phosphorous oxide		
Protective equipment and precautions for firefighters:	Click or tap here to enter text.		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal. Ensure adequate ventilation. Ensure that air-handling systems are operational.
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SECTION 7 — HANDLING AND STORAGE

Handling Procedures Equipment	Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials.
	Click or tap here to enter text.
	Click or tap here to enter text.
Storage Requirements	Keep container tightly closed in a dry and well-ventilated place. Store at 4C.
	Click or tap here to enter text.
	Click or tap here to enter text.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	<input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (Specify) enter text.
Specific Engineering Controls (such as ventilation, enclosed process)	Click or tap here to enter text.
Personal Protective Measures	Click or tap here to enter text.
Personal Protective Equipment	<p>Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection: 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. Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection: Respiratory protection is not required. Control of environmental exposure: No special environmental precautions required.</p>

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Appearance	Odor Threshold (ppm)
Liquid	Clear	No information available
Odor	Solubility	Partition coefficient
Odorless	Water Soluble	No information available
Specific Gravity	Vapor Density (air = 1)	Vapor Pressure (mmHg)
No information available	No information available	No information available
Autoignition Temp (° C)	Melting Point (° C)	Flash Point (° C)
No information available	No information available	No information available
Evaporation Rate	Boiling Point (° C)	Freezing Point (° C)
No information available	No information available	No information available
pH	Relative Density	Viscosity
No information available	No information available	No information available

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions? Click or tap here to enter text.
Incompatibility with Other Substances	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Strong oxidizing agents

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	No data available	
	Click or tap here to enter text.	
Effects of chronic exposure	No data available	
	Click or tap here to enter text.	
	Click or tap here to enter text.	
	Click or tap here to enter text.	
Sensitization	No data available	
	Click or tap here to enter text.	
LD50	No data available	
Carcinogenicity, reproductive toxicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen	
Other	Click or tap here to enter text.	

SECTION 12 — ECOLOGICAL INFORMATION

No data available

SECTION 13 — DISPOSAL CONSIDERATIONS

None

SECTION 14 — TRANSPORT INFORMATION

Not dangerous good during transportation

SECTION 15 — REGULATORY INFORMATION

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. SARA Section 313: Not listed. Not WHMIS controlled.
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC. Health Hazard : 1 Fire Hazard : 0
Reactivity : 1

SECTION 16 — OTHER INFORMATION

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Amplyus LLC is not held liable for any damage resulting from handling or from contact with the above-mentioned products.

Concentrated Fluorescein

Latest revision date: 10/26/2020

Revision: 1.1

SDS prepared by: Amplyus

SECTION 1 — IDENTIFICATION

Product name: Concentrated Fluorescein

Catalog or product number: KT-1900-04

Product use: This product is for education and research use only

Supplier:

Amplyus LLC

1770 Massachusetts Avenue, Suite 167

Cambridge, MA 02140

Phone: 1-781-990-8727

Fax: 888-317-0512

CHEMTREC Emergency Telephone Number: 1-800-262-8200

SECTION 2 — HAZARDS IDENTIFICATION

GHS classification: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard

Hazard statement(s): Product contains no substances which at their given concentration, are considered to be hazardous to health.

Precautionary statement(s): N/A

Hazards not otherwise classified: None identified.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	CAS Number
Fluorescein	<1%	2321-07-5
Deionized water	98%	7732-18-5

SECTION 4 — FIRST AID MEASURES

General information: No special measures required

Eye contact: Flush opened eye immediately with plenty of water. If irritation persists, get medical attention.

Skin contact: Wash off immediately with plenty of soap and water. If irritation develops, get medical attention.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

Ingestion: Rinse mouth with water. Seek medical attention and appropriate follow-up.

SECTION 5 — FIRE-FIGHTING MEASURES

Conditions of flammability: Not flammable.

Suitable extinguishing media: Dry chemical, CO₂, water spray, or alcohol resistant foam.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for fire-fighting if necessary.

Hazardous combustion products: N/A.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Prevent skin/eye contact. Wear personal protective equipment as needed.

Environmental precautions: No special measures required.

Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

SECTION 7 — HANDLING AND STORAGE

Precautions for safe handling: No special measures required.

Conditions for safe storage: No special measures required. Store at room temperature.

Incompatible products: N/A

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering controls: Not required. General room ventilation is adequate for use of this product.

Personal protective measures: Wash hands thoroughly after handling. Do Not eat, drink or smoke when handling this product.

Personal protective equipment:

- **Skin protection:** protective gloves, appropriate protective clothing
- **Eye protection:** safety glasses

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Form: Solution

Color: Clear yellowish

Odor: Odorless

Odor threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Boiling point: No data available

Flash point: No data available

Evaporation rate: No data available

Ignition temperature: No data available

Autoignition temperature: No data available

Lower explosion limit: No data available

Upper explosion limit: No data available

Vapor pressure: No data available

Vapor density: No data available

Relative density (water = 1): No data available

Water solubility: No data available

Partition coefficient (n-octanol/water): No data available

Viscosity: No data available

SECTION 10 — STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions

Incompatible materials to avoid: Strong oxidizers

Hazardous decomposition products: N/A

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute toxicity LD/LC50 values: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Reproductive toxicity: No data available

Teratogenicity: No data available

Carcinogenicity: No components of this product are listed by IARC, NTP, and OSHA

SECTION 12 — ECOLOGICAL INFORMATION

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT assessment: No data available

vPvB assessment: No data available

Other adverse effects: None known

SECTION 13 — DISPOSAL CONSIDERATIONS

Product: Dispose of waste in accordance with applicable national, regional, or local regulations.

SECTION 14 — TRANSPORT INFORMATION

This substance is considered to be Non-hazardous for transport.

SECTION 15 — REGULATORY INFORMATION

SARA 302/304 (40CFR355.30/40CFR355.40): This material does not contain any components with a section 302 EHS TPQ or a section 304 EHS RQ.

SARA 313: Substance not listed.

SARA 311/312: No SARA hazards.

California Proposition 65: Substance not listed.

Massachusetts right to know: Substance not listed.

SECTION 16 — OTHER INFORMATION

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Amplyus LLC is not held liable for any damage resulting from handling or from contact with the above mentioned products



SAFETY DATA SHEET (SDS)

P51 Enzyme Lab™ – Concentrated Substrate Molecule (KT-1900-02f)

SECTION 1 — IDENTIFICATION

Product Name	Concentrated substrate molecule – 100X in DMSO (KT-1900-02f)					
Product Use	Research and educational use only					
Supplier's Name	Amplyus					
Street Address	1770 Massachusetts Avenue					
City	Cambridge	State	Massachusetts	Zip Code	02140	
Emergency Telephone Number	enter text.		Date SDS Prepared	1/10/2020	Date SDS Revised	6/1/2020
Chemtrec (USA)	800-424-9300	SDS Prepared By	BCB	Fax	8883170512	

SECTION 2 — HAZARDS IDENTIFICATION

Hazard classification:	None
Hazard statement(s):	None
Precautionary statements (s):	None
Hazards not otherwise classified:	.
Other:	.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	CAS Number	Other
Trade Secret	<1%	Proprietary	
DMSO	>99	67-68-5	enter text.

SECTION 4 — FIRST AID MEASURES

Eye Contact	Flush eyes with water as a precaution.
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
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.
Possible Symptoms	Click or tap here to enter text.
Immediate Care	Click or tap here to enter text.
Special Treatment Needed	Click or tap here to enter text.

SECTION 5 — FIRE-FIGHTING MEASURES

Flammable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, under which conditions?	Level 2 – Materials that must be moderately heated before ignition can occur.
Means of Extinction	Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.		
Hazardous Combustion Products	Click or tap here to enter text.		
Protective equipment and precautions for firefighters:	Wear self contained breathing apparatus for firefighting if necessary		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.
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SECTION 7 — HANDLING AND STORAGE

Handling Procedures Equipment	Avoid inhalation of vapor or mist.
	Avoid direct contact with substance.
	Click or tap here to enter text.
Storage Requirements	Keep container tightly closed in a dry and well-ventilated place.Store at 4oC.
	Click or tap here to enter text.
	Click or tap here to enter text.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	<input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (Specify) enter text.
Specific Engineering Controls (such as ventilation, enclosed process)	Click or tap here to enter text.
Personal Protective Measures	Click or tap here to enter text.
Personal Protective Equipment	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. Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Appearance	Odor Threshold (ppm)
Liquid	Clear	No information available
Odor	Solubility	Partition coefficient
No information available	Water Soluble	No information available
Specific Gravity	Vapor Density (air = 1)	Vapor Pressure (mmHg)
No information available	No information available	No information available
Autoignition Temp (° C)	Melting Point (° C)	Flash Point (° C)
No information available	No information available	No information available
Evaporation Rate	Boiling Point (° C)	Freezing Point (° C)
No information available	No information available	No information available
pH	Relative Density	Viscosity
No information available	No information available	No information available

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions? Product is stable under recommended condition.
Incompatibility with Other Substances	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, which ones? Click or tap here to enter text.

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	No data available
	Click or tap here to enter text.
Effects of chronic exposure	No data available
	Click or tap here to enter text.
	Click or tap here to enter text.
	Click or tap here to enter text.
Sensitization	No data available
	Click or tap here to enter text.
LD50	DMSO: Oral LD50 rat - 14,500 mg/kg. Inhalation LC50 Inhalation - rat - 4 h - 40250 ppm. Dermal LD50 rabbit - > 5,000 mg/kg.
Carcinogenicity, reproductive toxicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen
Other	Click or tap here to enter text.

SECTION 12 — ECOLOGICAL INFORMATION

Toxicity DMSO The LC50(96hrs) for ten species of fish range from 32500 to 43000ppm. Persistence and degradability-no information available. Biodegradation - no information available. Mobility in soil - no information available. Results of PBT and vPvB assessment - no information available. Other adverse effects - no information available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

SECTION 14 — TRANSPORT INFORMATION

Not dangerous goods during transportation

SECTION 15 — REGULATORY INFORMATION

US Toxic Substances Control Act (TSCA): Not listed.
SARA 302: No chemicals were found.
SARA 313: No chemicals were found.
SARA 311/312 Hazards: No chemicals were found.

SECTION 16 — OTHER INFORMATION

For Further information
Contact miniPCR bio, Amplyus LLC
1770 Massachusetts Avenue, Cambridge
MA 02140, USA., team@minipcr.com; support@minipcr.com



SAFETY DATA SHEET (SDS)

P51 Enzyme Lab™ – Dilution Buffer (KT-1900-02e)

SECTION 1 — IDENTIFICATION

Product Name	Dilution buffer (KT-1900-02e)					
Product Use	Research and educational use only					
Supplier's Name	Amplyus					
Street Address	1770 Massachusetts Avenue					
City	Cambridge	State	Massachusetts	Zip Code	02140	
Emergency Telephone Number	enter text.		Date SDS Prepared	1/10/2020	Date SDS Revised	6/1/2020
Chemtrec (USA)	800-424-9300	SDS Prepared By	BCB		Fax	8883170512

SECTION 2 — HAZARDS IDENTIFICATION

Hazard classification:	May be harmful if inhaled or swallowed/ May cause respiratory tract irritations. May cause skin irritation or eye irritation.					
Hazard statement(s):	None					
Precautionary statements (s):						
Hazards not otherwise classified:	None					
Other:	Click or tap here to enter text.					

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	CAS Number	Other
Trade secret	<1	Proprietary	
Trade secret	1.1%	Proprietary	
Deionized water	98.7%	7732-18-5	enter text.

SECTION 4 — FIRST AID MEASURES

Eye Contact	Flush eyes with water as a precaution. for 15-20 minutes. Remove contact lenses if possible. Seek medical attention if irritation persists or if concerned.
Skin Contact	Wash off with soap and plenty of water.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if discomfort, irritation or vomiting persists.
Possible Symptoms	Click or tap here to enter text.
Immediate Care	Click or tap here to enter text.
Special Treatment Needed	Click or tap here to enter text.

SECTION 5 — FIRE-FIGHTING MEASURES

Flammable	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions?	Click or tap here to enter text.
Means of Extinction	Use Water, dry chemical, chemical foam, carbon dioxide or alcohol resistant foam		
Hazardous Combustion Products	Sodium oxide, phosphorous oxide		
Protective equipment and precautions for firefighters:	Click or tap here to enter text.		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal. Ensure adequate ventilation. Ensure that air-handling systems are operational.
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SECTION 7 — HANDLING AND STORAGE

Handling Procedures Equipment	Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials.
	Click or tap here to enter text.
	Click or tap here to enter text.
Storage Requirements	Keep container tightly closed in a dry and well-ventilated place. Store at 4C.
	Click or tap here to enter text.
	Click or tap here to enter text.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	<input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (Specify) enter text.
Specific Engineering Controls (such as ventilation, enclosed process)	Click or tap here to enter text.
Personal Protective Measures	Click or tap here to enter text.
Personal Protective Equipment	<p>Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection: 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. Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection: Respiratory protection is not required. Control of environmental exposure: No special environmental precautions required.</p>

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Appearance	Odor Threshold (ppm)
Liquid	Clear	No information available
Odor	Solubility	Partition coefficient
Odorless	Water Soluble	No information available
Specific Gravity	Vapor Density (air = 1)	Vapor Pressure (mmHg)
No information available	No information available	No information available
Autoignition Temp (° C)	Melting Point (° C)	Flash Point (° C)
No information available	No information available	No information available
Evaporation Rate	Boiling Point (° C)	Freezing Point (° C)
No information available	No information available	No information available
pH	Relative Density	Viscosity
No information available	No information available	No information available

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions? Click or tap here to enter text.
Incompatibility with Other Substances	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Strong oxidizing agents

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	No data available	
	Click or tap here to enter text.	
Effects of chronic exposure	No data available	
	Click or tap here to enter text.	
	Click or tap here to enter text.	
	Click or tap here to enter text.	
Sensitization	No data available	
	Click or tap here to enter text.	
LD50	No data available	
Carcinogenicity, reproductive toxicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen	
Other	Click or tap here to enter text.	

SECTION 12 — ECOLOGICAL INFORMATION

No data available

SECTION 13 — DISPOSAL CONSIDERATIONS

None

SECTION 14 — TRANSPORT INFORMATION

Not dangerous good during transportation

SECTION 15 — REGULATORY INFORMATION

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. SARA Section 313: Not listed. Not WHMIS controlled.
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC. Health Hazard : 1 Fire Hazard : 0
Reactivity : 1

SECTION 16 — OTHER INFORMATION

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Amplyus LLC is not held liable for any damage resulting from handling or from contact with the above-mentioned products.

SECTION 1 — IDENTIFICATION

Product Name	500 mM Lactose (KT-1900-02a)						
Product Use	Research and education use only						
Supplier's Name	Amplyus LLC						
Street Address	1770 Massachusetts Avenue, Suite 167						
City	Cambridge	State	MA	Zip Code	02140		
Emergency Telephone Number	+1-781-990-8727		Date SDS Prepared	text.	Date SDS Revised		
Chemtrec (USA)	1-800-262-8200		SDS Prepared By	Amplyus		Fax	888-317-0512

SECTION 2 — HAZARDS IDENTIFICATION

Hazard classification:	Not a hazardous substance or mixture		
Hazard statement(s):	Not a hazardous substance or mixture.		
Precautionary statements (s):	Wash with water immediately after contact		
Hazards not otherwise classified:	Not applicable.		
Other:	Not applicable.		

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	CAS Number	Other
Lactose	500 mM	5965-66-2	
Proprietary buffer	>96	Proprietary	

SECTION 4 — FIRST AID MEASURES

Eye Contact	Rinse opened eye immediately with plenty of water. If irritation persists, get medical attention.
Skin Contact	Wash off with soap and plenty of water.
Inhalation	If breathed in, move the person into fresh air. If not breathing, give artificial respiration, if breathing becomes difficult, consult a physician.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Possible Symptoms	Not applicable.
Immediate Care	Not applicable.
Special Treatment Needed	Treat symptomatically

SECTION 5 — FIRE-FIGHTING MEASURES

Flammable	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions?	Not applicable.
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Means of Extinction	Dry chemical CO ₂ , water spray or alcohol resistant foam.	
Hazardous Combustion Products	Carbon oxides	
Protective equipment and precautions for firefighters:	Wear self-contained breathing apparatus and protective clothing prevent contact with skin and eyes.	

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	<p>Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.</p> <p>Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.</p>
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SECTION 7 — HANDLING AND STORAGE

Handling Procedures Equipment	No special handling equipment is needed. To avoid contamination use protective gloves.
Storage Requirements	Tightly cap the tube and store in the freezer at 4°C.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	<input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (Specify) enter text.
Specific Engineering Controls (such as ventilation, enclosed process)	Contains no substances with occupational exposure limit values. Work in well ventilated area.
Personal Protective Measures	<p>Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection 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.</p> <p>Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p> <p>Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure Do not let product enter drains.</p>
Personal Protective Equipment	Follow skin and eye protective measures.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Appearance	Odor Threshold (ppm)
Liquid	Clear	Data not available.
Odor	Solubility	Partition coefficient
None	Water	Data not available.
Specific Gravity	Vapor Density (air = 1)	Vapor Pressure (mmHg)
Data not available.	Data not available.	Data not available.
Autoignition Temp (° C)	Melting Point (° C)	Flash Point (° C)
Data not available.	Data not available.	Data not available.
Evaporation Rate	Boiling Point (° C)	Freezing Point (° C)
Data not available.	Data not available.	Data not available.
pH	Relative Density	Viscosity
	Data not available.	Data not available.

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions? Stable under recommended temperature.
Incompatibility with Other Substances	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Strong oxidizing agents.

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	Data not available.
	Data not available.
	Data not available.
Effects of chronic exposure	Data not available.
	Data not available.
	Data not available.
	Data not available.
Sensitization	Data not available.
	Data not available.
LD50	Data not available.
Carcinogenicity, reproductive toxicity	Data not available.
Other	Data not available.

SECTION 12 — ECOLOGICAL INFORMATION

Toxicity

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment PBT/vPvB assessment

not available as chemical safety assessment not required/not conducted

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

SECTION 13 — DISPOSAL CONSIDERATIONS

Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14 — TRANSPORT INFORMATION

None

SECTION 15 — REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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.

SARA 311/312 Hazards

Acute health hazards

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

4-O-β-D-galactopyranosyl-β-D-glucopyranose CAS-No. 5965-66-2 Revision Date

New Jersey Right To Know Components

4-O-β-D-galactopyranosyl-β-D-glucopyranose CAS-No. 5965-66-2 Revision Date

California Prop. 65 Components

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

SECTION 16 — OTHER INFORMATION

For Further information

Contact miniPCR bio, Amplyus LLC

1770 Massachusetts Avenue, Cambridge

MA 02140, USA., team@minipcr.com; support@minipcr.com



SAFETY DATA SHEET (SDS)

Product name: 100 mM NaOH

SECTION 1 — IDENTIFICATION

Product Name	100 mM NaOH (RG-1021-01)						
Product Use	Research and education use only						
Supplier's Name	Amplify LLC						
Street Address	1770 Massachusetts Avenue, Suite 167						
City	Cambridge	State	MA			Zip Code	02140
Emergency Telephone Number			Date SDS Prepared	4/1/2020.	Date SDS Revised	6/1/2020	
Chemtrec (USA)	1-800-262-8200		SDS Prepared By	Amplify	Fax	888-317-0512	

SECTION 2 — HAZARDS IDENTIFICATION

Hazard classification:	Corrosive
Hazard statement(s):	The product does not contain substances which, at the given concentration, might be hazardous to health
Precautionary statements (s):	Wash with water immediately after contact
Hazards not otherwise classified:	Not applicable.
Other:	Not applicable.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	CAS Number	Other
Sodium Hydroxide	100 mM	1310-73-2	
Water	~99	7732-18-5	

SECTION 4 — FIRST AID MEASURES

Eye Contact	Rinse opened eye immediately with plenty of water. If irritation persists, get medical attention.
Skin Contact	Wash off with soap and plenty of water.
Inhalation	If breathed in, move the person into fresh air. If not breathing, give artificial respiration, if breathing becomes difficult, consult a physician.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Possible Symptoms	Not applicable.

Immediate Care	Not applicable.
Special Treatment Needed	Treat symptomatically

SECTION 5 — FIRE-FIGHTING MEASURES

Flammable	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions?	Not applicable.
Means of Extinction	Dry chemical CO ₂ , water spray or alcohol resistant foam.		
Hazardous Combustion Products	Not applicable		
Protective equipment and precautions for firefighters:	Wear self-contained breathing apparatus and protective clothing prevent contact with skin and eyes.		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	<p>Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.</p> <p>Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.</p>
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SECTION 7 — HANDLING AND STORAGE

Handling Procedures Equipment	No special handling equipment is needed. To avoid contamination use protective gloves.
Storage Requirements	Tightly cap the tube and store in the freezer at -20°C or at room temperature.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	<input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (Specify) enter text.
Specific Engineering Controls (such as ventilation, enclosed process)	Contains no substances with occupational exposure limit values. Work in well ventilated area.
Personal Protective Measures	General industrial hygiene practice. Must handle with protective gloves.
Personal Protective Equipment	Follow skin and eye protective measures.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Appearance	Odor Threshold (ppm)
Liquid	Clear	Data not available.
Odor	Solubility	Partition coefficient
None	Water	Data not available.
Specific Gravity	Vapor Density (air = 1)	Vapor Pressure (mmHg)
Data not available.	Data not available.	Data not available.
Autoignition Temp (° C)	Melting Point (° C)	Flash Point (° C)
Data not available.	Data not available.	Data not available.
Evaporation Rate	Boiling Point (° C)	Freezing Point (° C)
Data not available.	Data not available.	Data not available.
pH	Relative Density	Viscosity
~>10.0	Data not available.	Data not available.

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions? Stable under recommended temperature.
Incompatibility with Other Substances	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Water, acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, Zinc.

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	Data not available.
	Data not available.
	Data not available.
Effects of chronic exposure	Data not available.
	Data not available.
	Data not available.
	Data not available.
Sensitization	Data not available.
	Data not available.
LD50	Data not available.
Carcinogenicity, reproductive toxicity	Data not available.
Other	Data not available.

SECTION 12 — ECOLOGICAL INFORMATION

Toxicity

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment PBT/vPvB assessment

not available as chemical safety assessment not required/not conducted

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

SECTION 13 — DISPOSAL CONSIDERATIONS

Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14 — TRANSPORT INFORMATION

UN number: 1824 Class: 8 Packing group: II.

SECTION 15 — REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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.

SARA 311/312 Hazards

Acute health hazards

Massachusetts Right To Know Components

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

SECTION 16 — OTHER INFORMATION

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Amplyus LLC is not held liable for any damage resulting from handling or from contact with the above-mentioned products.