

SAFETY DATA SHEET (SDS)

Agricultural Monitoring Lab

Issue date: 22-08-2025

Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	Agricultural Monitoring Lab: a case study in antibiotic resistance
Product Codes:	KT-1010-01
Other means of identification:	
External product name and code/s:	
Manufacturer:	
Amplius 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
Control DNA	4
DNA ladder	3
EZ PCR master mix	3
Primer mix	4

SECTION 1 — IDENTIFICATION

Product Name	Control DNA						
Product Use	Research and Educational 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:	This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)						
Hazard statement(s):	The product contains no substance which at their given concentration, are considered to be hazardous to health						
Precautionary statements (s):	Not applicable						
Hazards not otherwise classified:	Not applicable.						
Other:	Not applicable.						

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	CAS Number	Other
Not disclosed. DNA			

SECTION 4 — FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician
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, call 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 CO2, 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>Apply laboratory handling protocol. Sweep up. Keep in suitable, closed containers for disposal.</p> <p>Avoid dust formation. Avoid breathing vapours, mist or gas.</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 freezer at -20°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.
Personal Protective Measures	General industrial hygiene practice.
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
~7.0-8.0	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 at least for 6 months 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	0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity	
	0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity	
	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)	
	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)	
	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)	
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

The environmental impact of this product has not been fully investigated

SECTION 13 — DISPOSAL CONSIDERATIONS

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

SECTION 14 — TRANSPORT INFORMATION

Not dangerous goods.

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.

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.

Latest revision date: September 2020

Revision: 1

SDS prepared by: Amplyus

SECTION 1 — IDENTIFICATION

Product name: Fast DNA ladder 1

Catalog or product number: RG-1003-01

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

Hazard class: Not a dangerous substance or mixture according to the Global Harmonized System (GHS)

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

Precautionary statement(s): Use personal protective equipment as required; do not eat, drink, or smoke when using this product; wash hands thoroughly after handling.

Hazards not otherwise classified: N/A

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Composition	CAS Number
Tris-HCL	1.5 mM	1185-53-1
Bromophenol blue	0.005%	34725-61-6
Glycerol	10%	56-81-5
EDTA (Ethylenediaminetetraacetic acid)	10 mM	60-00-4
DNA fragments	35 ng/μl	

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 -20°C

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: blue

Odor: No data available

Odor threshold: No data available

pH: ~7.6

Melting point/freezing point: No data available

Boiling point: No data available

Flash point: No data available

Evaporation rate: f 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 acids or bases, strong oxidizers

Hazardous decomposition products: N/A

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of acute exposure: May cause skin irritation, may cause eye irritation, may irritate mucous membranes and upper respiratory tract

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

Contaminated packaging: Dispose of packaging 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)

Product name EZ PCR Master Mix, 5X, Load Ready™

Latest revision date: December 5, 2023

Revision: 1

SDS prepared by: Amplyus

SECTION 1 — IDENTIFICATION

Product name: EZ PCR Master Mix, 5X, Load Ready™

Catalog or product number: RG-1000-01

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

Emergency Telephone Number: 1-781-990-8727 during US East Coast business hours

SECTION 2 — HAZARDS IDENTIFICATION

GHS classification: Not a dangerous substance or mixture according to the Global Harmonized System (GHS)

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: N/A

Classification under Directive (EC) No. 1907/2006 (REACH): Product contains no substances that need to be registered in accordance with Directive (EC) No. 1907/2006 [REACH]

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	CAS Number
Proprietary formula		

SECTION 4 — FIRST AID MEASURES

General information: No special measures required

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, call a physician.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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. Ensure adequate ventilation.

Environmental precautions: Do not allow to enter surface/sewers or groundwater.

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 handling equipment is needed. To avoid contamination use protective gloves.
Store at -20 °C

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: Green

Odor: No data available

Odor threshold: No data available

pH: 7.0-7.5

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: Easily soluble

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 oxidizing agents, acids and alkali

Hazardous decomposition products: N/A

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute toxicity LD/LC50 values: When used and handled according to specifications, the product does not have any known harmful effects.

Respiratory or skin sensitization: May cause skin irritation

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: Inherently biodegradable

Bioaccumulative potential: Does not bioaccumulate

Mobility in soil: No data available

PBT assessment: No data available

vPvB assessment: No data available

Other adverse effects: No data available

SECTION 13 — DISPOSAL CONSIDERATIONS

Product: This product is slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated packaging: Dispose of packaging 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)

Primer Mix

SECTION 1 — IDENTIFICATION

Product Name	Primer Mix					
Product Use	For research and educational use only					
Supplier's Name	Amplify 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	5/2020	Date SDS Revised	10/2020
Chemtrec (USA)	1-800-262-8200	SDS Prepared By	Amplify		Fax	888-317-0512

SECTION 2 — HAZARDS IDENTIFICATION

Hazard classification:	Not applicable
Hazard statement(s):	The product contains no substance which at their given concentration, are considered to be hazardous to health
Precautionary statements (s):	Not applicable
Hazards not otherwise classified:	Not applicable.
Other:	Not applicable.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	CAS Number	Other
No components need to be disclosed according to the applicable regulations			

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, call 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 CO2, 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.
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SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Use PPE, Sweep up. Keep in suitable, closed containers for disposal. Avoid dust formation. Avoid breathing vapors, mist or gas.
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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 freezer at -20°C

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	<input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (Specify) .
Specific Engineering Controls (such as ventilation, enclosed process)	Contains no substances with occupational exposure limit values.
Personal Protective Measures	General industrial hygiene practice.
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
~7.0-8.0	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 at least for 6 months under recommended temperature.
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Incompatibility with Other Substances	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Strong oxidizing agents..
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SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity	
	0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity	
	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)	
	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)	
	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)	
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

Data not available.

SECTION 13 — DISPOSAL CONSIDERATIONS

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

SECTION 14 — TRANSPORT INFORMATION

Not dangerous goods.

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.

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.