Material Safety Data Sheet

According to 1 907/2006/EC, Article 31
Print date: 18.12.2024
Updated: 18.12.2024
Version: 1

KleverVet Mycobacterium tuberculosis/bovis PCR Kit

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product code (SKU):	RKV-MT/B-100
Product name:	KleverVet Mycobacterium tuberculosis/bovis PCR Kit

1.2 Components	Quantity / Volume
PCR Reagent	1 tube – 1.0 ml
Primers MT/B	1 tube – 1.0 ml
Positive Control MT/B	1 tube – 0.5 ml
Negative Control	1 tube – 1.0 ml
Exogenous internal control	1 tube – 1.0 ml

Identified uses	This product is for research only
1.3 Details of the supplier of the safety data sheet	KleverLab LLC Przeclawska st. 5, 03-879, Warsaw, Poland info@kleverlab.eu
Telephone	+48 573 966 831
1.4 Emergency telephone	+48 226 314 724 Institute of Occupational Medicine Toxicological Information Centre

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008
2.2 Label elements
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008
2.3 Other hazard
None

3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Mixture

3.1.1 PCR Reagent

Substances	**Formula**	**Molecular weight**	**CAS-No.**	**Weight, %**	**EC-No.**
Trehalose	C12H22O1	378.33 g/mol	6138-23-4	7-10	202-739-6
Tris base	$NH_2C(CH_2OH)_3$	121.14	77-86-1	< 0.5	201-064-4
Tween-20	C58H114O26	1.228 g/mol	9005-64-5	< 0.5	500-018-3
Potassium chloride	KCl	74.551 g/mol	7447-40-7	4-5	231-211-8

3.1.2 Primers MT/B

Substances	**Formula**	**Molecular weight**	**CAS-No.**	**Weight, %**	**EC-No.**
Poly(A)potassium salt	(C10H13KN507P)n	385.31	26763-19-9	< 0.1	202-739-6
Tris base	$NH_2C(CH_2OH)_3$	121.14	77-86-1	< 0.5	201-064-4

3.1.3 Positive Control MT/B

Substances	**Formula**	**Molecular weight**	**CAS-No.**	**Weight , %**	**EC-No.**

Poly(A)potassium salt	(C10H13KN507P)n	385.31	26763-19-9	< 0.1	202-739-6
Tris base	$NH_2C(CH_2OH)_3$	121.14	77-86-1	< 0.5	201-064-4

3.1.4 Negative Control

Substances	**Formula**	**Molecular weight**	**CAS-No.**	**Weight, %**	**EC-No.**
H2O	H2O	18.01	7732-18-5	100	231-791-2

3.1.5 Exogenous internal control

Substances	**Formula**	**Molecular weight**	**CAS-No.**	**Weight, %**	**EC-No.**
Poly(A)potassium salt	(C10H13KN507P)n	385.31	26763-19-9	< 0.1	202-739-6
Tris base	$NH_2C(CH_2OH)_3$	121.14	77-86-1	< 0.5	201-064-4

The product contains no substances which at their given concentration, are considered to be hazardous to health.
We recommend handling all chemicals with caution.

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4. FIRST AID MEASURES

4.1 Description of first-aid measures

Eye In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician. If symptoms such as redness and irritation persist, obtain medical attention.

Skin In case of contact, immediately wash skin with soap and copious amounts of water.

Inhalation If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion If swallowed, wash out mouth with water provided person is conscious. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

See section 2 and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media	
Suitable extinguishing	Water spray. Carbon dioxide (CO_2). Foam. Dry chemical
5.2 Special hazards arising from the substance or mixture	Carbon oxides
5.3 Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information	No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	- Ensure adequate ventilation - Always wear recommended Personal Protective Equipment - Use personal protection equipment - See section 8 for more information
6.2 Environmental precautions	Prevent product from entering drains. Do not allow material to contaminate ground water system
6.3 Methods and material for containment and cleaning up	Soak up with inert absorbent material

7. HANDLING AND STORAGE

7.1 Precautions for safe handling	Use personal protective equipment as required. No special handling advice is necessary
7.2 Conditions for safe storage, including any incompatibilities	Keep in a dry, cool and well-ventilated place. Keep in properly labeled container
7.3 Specific end use(s)	Keep tightly closed From -24°C to -16°C – 1 year From +2°C to +8°C – 12 months 10 freeze/thaw cycles are allowed

8. ENGINEERING CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	Ingredients with workplace control parameters
8.2 Exposure controls	
Personal protective equipment	
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. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Odour	Odourless
Molecular Weight	No data
pH	No data
Evaporation rate	No data
Flammability (solid, gas)	Not-flammable
Vapour pressure	No data
Vapour density	No data
Relative density	No data
Specific gravity	No data
Solubility	No data
Viscosity	No data

Explosive properties	Not-explosive

10. STABILITY AND REACTIVITY

10.1 Reactivity	No data available
10.2 Chemical Stability	Stable
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to Avoid	No data available
10.5 Hazardous Decomposition Products	Decomposition products are not-hazardous
10.6 Hazardous Polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Teratogenicity	ND
Reproductive Effects	ND
Neurotoxicity	ND
Mutagenicity	ND
Carcinogenicity	ND
Other Studies	ND
11.2 Additional Information	ND

12. ECOLOGICAL INFORMATION

12.1 Toxicity	ND
12.2 Persistence and degradability	ND
12.3 Bioaccumulative potential	ND
12.4 Mobility in soil	ND
12.5 Results of PBT and vPvB assessment	ND
12.6 Endocrine disrupting properties	ND
12.7 Other adverse effects	ND

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contact a licensed professional waste disposal service to dispose of this material.
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification

14. TRANSPORT INFORMATION

UN number

ADR/RID: -	IMDG: -	IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods	IMDG: Not-dangerous goods	IATA: Not-dangerous goods

Transport hazard class(es)

ADR/RID: -	IMDG: -	IATA: -

Packaging group

ADR/RID: -	IMDG: -	IATA: -

Environmental hazards

ADR/RID: no	IMDG Marine pollutant: no	IATA: no

Special precautions for user

No data available

US DOT: Non-hazardous for Transport

This substance is considered to be non-hazardous for transport

Required Label Description:

None (not-regulated)

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

None

This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006, International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and precursors, Restrictions on the marketing and use of certain dangerous substances, Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals, Candidate List of Substances of Very High Concern for Authorisation

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION

References

- ECHA: http://echa.europa.eu
- TOXNET: http://toxnet.nlm.nih.gov
- eChemPortal: http://www.echemportal.org
- LOLI database: https://www.chemadvisor.com/loli-database

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] on classification, labeling and packaging of substances and mixtures.
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Not-classified

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.
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