

MATERIAL SAFETY DATA SHEET

Valid date of : Mar. 24, 2025

1. Product and Company Identification

Product name : Asan qPCR Test[®] Malaria

Application of the Product: Clinical Laboratory Application (Molecular diagnostic kit)

Manufacturer/Supplier : ASAN PHARMACEUTICAL CO., LTD

122-26, Gieopdangi-ro, Gongdo-eup, Anseong-si

Gyeonggi-do, Korea

TEL: 82-31-656-5991 / 82-31-376-5990 (Ext. 507)

FAX: 82-31-656-5992 / 82-31-376-5993

2. Composition/Information on Ingredients

2x Onestep qRT-PCR Master Mix

	CAS#	Concentration	Exposure Limits
2x qRT-PCR Premix	N/A	100%	N/A

Primer/Probe Mix

	CAS#	Concentration	Exposure Limits
P.spp primer(F)	N/A	250 nM	N/A
P.spp primer(R)	N/A	250 nM	N/A
P.f primer(F)	N/A	500 nM	N/A
P.f primer(R)	N/A	500 nM	N/A
P.v primer(F)	N/A	500 nM	N/A
P.v primer(R)	N/A	500 nM	N/A
IC primer(F)	N/A	500 nM	N/A
IC primer(R)	N/A	500 nM	N/A
P.spp probe	N/A	125 nM	N/A
P.f probe	N/A	125 nM	N/A
P.v probe	N/A	500 nM	N/A
IC probe	N/A	125 nM	N/A
DEPC-DW	7732-18	Up to 100%(v/v)	N/A

Positive Control

	CAS#	Concentration	Exposure Limits
<i>Plasmodium</i> spp., <i>P. falciparum</i> , <i>P. vivax</i> (18s rRNA), IC Plasmid DNA	N/A	100 fg/μL	N/A
DEPC-DW	7732-18	Up to 100%(v/v)	N/A

Negative Control

	CAS#	Concentration	Exposure Limits
DEPC-DW	7732-18	100%	N/A

(N/A ; not applicable)

3. Hazards Identification

Classification of the substance or mixture	: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
	: Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC
Label elements	: The product does not need to be labelled in accordance with EC directives or respective national laws.
Other hazards	: none.

4. First Aid Measures

Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin Contact	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Eye Contact	: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water at least 15 minutes. Cold water may be used. Get medical attention.

5. Fire-Fighting Measures**Extinguishing Media**

Suitable	: Not applicable. Use an extinguishing agent suitable for surrounding fires.
Flammability of the Product	: Non-flammable.
Autoignition Temperature	: Not applicable.
Flash Points	: Not applicable.
Flammable Limits	: Not applicable.
Fire Hazards in Presence of Various Substances	: Not applicable.
Explosion Hazards in Presence	: Not considered as a product presenting risks of explosion.

of Various Substances

Special Remarks on Fire Hazards : Not available.

6. Accidental Release Measures

Environmental Precautions and Clean-up Methods : Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Small Spill and Leak : Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

7. Handling and Storage

Handling : Avoid breathing vapors or spray mists.
Store in -15 ° C to -25 ° C conditions. Keep container tightly closed. Containers which are
Storage : opened must be carefully resealed and kept upright to prevent leakage..

8. Exposure controls and Personal protection

Engineering measures : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal protective equipment

Skin and Body : Lab coat.
Hands : Gloves.
Eyes : Safety glasses.
Feet : Not applicable

Personal Protection in Case of a Large Spill : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Consult local authorities for acceptable exposure limits.

9. Physical and Chemical Properties

Physical state	: Liquid
Odor	: Not available.
Odor Threshold	: Not available.
Taste	: Not available.
Molecular Weight	: Not applicable.
Molecular Formula	: Not applicable.
pH	:: Not available.
Boiling Point	: The lowest known values is 100°C (212°F)(water)
Melting Point	: Not available.
Critical Temperature	: Not available.
Vapor Pressure	: Not available.
Volatility	: Not available.
VOC	: Not available.
Evaporation rate	: Not available.
Specific Gravity	: Not available.
Solubility	: Not available..
Ionicity (in Water)	: Not available.
Dispersion Properties	: Not available.
Physical Chemical Comments	: Not available.

10. Stability and Reactivity

Stability	: The product is stable.
Hazardous Decomposition	: Not applicable.
Products	
Hazardous Polymerization	: Will not occur.
Explosion Hazards in Presence of Various Substances	: Not considered as a product presenting risks of explosion.

11. Toxicological information

Chronic Effects on Humans	: Carcinogenic effects: Not available.
Other Toxic Effects on Human	: No specific information is available in our database regarding the other toxic effects of this material for humans.
Special Remarks on Toxicity to Animals	: Not available.
special Remarks on Chronic Effects on Humans	: Not available.
Special Remarks on Other Toxic Effects on Humans	: Not available.

12. Ecological information

BOD and COD : Not available.

Biodegradable/OECD : Not available.

Mobility : Not available.

Products of Degradation : Not available.

Toxicity of the products of Biodegradation : Not available.

Special Remarks on the Products of Biodegradation : Not available.

13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream : Not available.

Consult your local or regional authorities.

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

15. Regulations

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity:

None of the ingredients is listed

Carcinogen categories

EPA (Environmental Protection Agency):

None of the ingredients is listed

IARC (International Agency for Research on Cancer):

None of the ingredients is listed

NTP (National Toxicology Program) :

None of the ingredients is listed

TLV(Threshold Limit Value established by ACGIH) :

None of the ingredients is listed

MAK(German Maximum Workplace Concentration) :

None of the ingredients is listed

NIOSH-Ca(National Institute for Occupational Safety and Health) :

None of the ingredients is listed

OSHA-Ca(Occupational Safety & Health Administration) :

None of the ingredients is listed

Hazard-determining components of labelling :

Not available.

Risk phrases:

Harmful if swallowed

safety phrases:

This material and its container must be disposed of in a safe way.

Wear suitable protective clothing.

If swallowed, seek medical advice immediately and show this container or label.

National regulations:

Water hazard class: Generally not hazardous for water.

16.Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guideline of ASAN PHARMACEUTICAL CO., LTD. shall not be held liable for any damage resulting from handling or from contact with above product. Final determination of suitability of any material is the sole responsibility of user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that are the only hazards that exist.