

Doc Name:	Material Safety Data Sheet (MSDS) for _Quantiplus ® Mucormycosis PCR Kit (Real-time Qualitative PCR Kit)		
Doc No.	MSDS/HL/025	Ver No:00	Effective from: 01/11/23

1	Company identification	HLSS Manufacturing Pvt Ltd Plot No's M14, M15, M16, TSIIC Medical device park Sulthanpur villiage, Ameenpur Mandal, Sangareddy Dist, TS-502319 Emergency Contact Tel: +91-08413-232256/ +91 9052226226 Email: info@huwellifesciences.com http://www.huwellifesciences.in
2	Product identification	
2.1	Name of the Product	Quantiplus ® Mucormycosis PCR Kit (Real-time Qualitative PCR Kit)
2.2	Product Code	: QL-MUCO-25, QL-MUCO-50
2.3	Pack size (No. of rxns)	: 25 Tests, 50 Tests
2.4	Intended use:	Mucorales have been increasingly reported as causes of invasive fungal infections in immune compromised subjects, particularly in patients with haematological malignancies, uncontrolled diabetes mellitus or those undergoing dialysis and off lately subjects recovering from covid19 infection. Mucorales are now also being reported in Aspergillus-positive patients who are not responding to first line treatments. Histology and culture are still the most important diagnostic approaches for mucormycosis because of the lack of molecular diagnostic methods available, and β-d-Glucan detection is not useful due to the extremely low content of the biomarker in the Mucorales order. Timely diagnosis of invasive mucormycosis is essential due to the rapid progression of the disease, and because signs and symptoms of the infection are consistent with other invasive fungal infections. Mucorales lacks diagnostics and it is suspected that prevalence is higher than reported, therefore the use of PCR could improve the sensitivity of Mucorales detection and influence appropriate treatment decisions more rapidly. The Quantiplus® Mucormycosis PCR Kit is designed to detect DNA of Mucorales species including Rhizopus spp, Mucor spp, Lichtheimia spp, Cunninghamella spp and Rhizomucor spp.
2.5	Composition/ Information on reagents:	The product contains general buffer, dNTP's, amplification mix, primer and probes and MgCl ₂ with non-hazardous properties. Note : This product is Research Use only. This product must be used by scientists/ laboratory technicians with strong knowledge on molecular biology as per Good Laboratory practice (GLP) and product insert/ instruction manual.

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3	Hazards identification	<p>Significant health effects are not anticipated from routine use of this kit when following the precautions listed within this MSDS and the kit specific package insert. None of the components listed within this kit are considered hazardous as defined by the Occupational Safety and Health Administration (OSHA).</p> <p>OSHA Hazards : No Known OSHA Hazards Inhalation : No information available. Ingestion : May be harmful. Skin Contact : No information available. Eye Contact : May cause irritation.</p>	
4	First-Aid Measures	<p>For all incidents, a medical exam is desirable</p> <p>Inhalation : No information available. Ingestion : May Induce immediate vomiting, seek medical advice Skin Contact : Wash copiously with water and soap. Eye Contact : Flush eyes copiously with water and seek medical advice</p>	
5	Fire-fighting Measures	<p>Extinguishing media: Use any mean suitable to extinguish the surrounding fire Un-extinguishing media : No information available Special hazards of product: No information available Protective equipment For fire fighting: Carry an autonomous respiratory protection apparatus and appropriate protection clothes</p>	
6	Accidental release Measures	<p>Individual Precaution: Use an individual protection equipment Environmental Precaution: If incident, let flow run copiously Method of cleaning: Clean with an inert absorbent</p>	
7	Handling and storage	<p>No specific recommendation is requested. Always store in frozen condition, Observe all conditions described in the user manual and on the labels. As with all chemical and biological substances, avoid getting the components within this kit spilled on you or into your body. Do not eat or drink while using this kit. This kit should be handled only by qualified clinical or laboratory employees trained on the use of this kit and who are familiar with the potential hazards. Universal precautions to be followed when handling and working with this kit.</p>	
8	Exposure controls		
8.1	Exposure limits	: No information available	
9	Personnel Protection	<p>Respiratory protection : No information available Hands protection: Wear water-proof gloves Eyes protection : Use chemical safety goggles Skin protection : Wear lab coat Hygiene measures: Follow good laboratory hygiene practices and security Instructions</p>	

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10	Physical and Chemical properties		
10.1	Physical state	: Liquid Chemical, physical, and toxicological properties have not been thoroughly investigated	
11	Stability and reactivity	Stability: Stable under conditions described in the Product insert Materials to avoid: No information available Hazardous decomposition Products: No information available	
12	Toxicological information	<u>Potential effects on health</u> Eyes : No information available Skin : No information available Inhalation : No information available Ingestion : No information available <u>Special Effects</u> Carcinogen : No information available Mutagen : No information available Toxicity for reproduction : No information available Sensitization : No information available	
13	Ecological information	Mobility : No information available Persistence/degradation : Intrinsically biodegradable Bioaccumulation : No information available Aquatic Toxicity : No information available Disposal Considerations & requirements : Dispose in accordance with state and local regulations	
14	Transportation information	The product is not dangerous. Follow IATA regulations	
15	Regulatory information	No information available	
16	Other Information	HLSS Manufacturing Pvt Ltd assumes no liability for damages resulting from handling or being in contact with this product. Customer is solely responsible for improper usage of this product other than for what this product is designed to use. The kit and its components may present unknown hazards and should be used with caution. Improper use and/or inappropriate combination with other products and substances may produce harmful results.	
-End-			

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