

Doc Name:	Material Safety Data Sheet (MSDS) for R Fast core qPCR Mix (2X) with UDG		
Doc No.	MSDS/HL/057	Ver No:00	Effective from: 02/11/23

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@huwelllifesciences.com http://www.huwelllifesciences.in
2	Product identification	
2.1	Name of the Product	: R Fast core qPCR Mix (2X) with UDG
2.2	Product Code	: HL - URFCqPM2X
2.3	Pack size (No. of rxns)	: 1.3ml
2.4	Intended use:	R Fast core qPCR Mix (2X) with UDG is a premix with concentrated reagents ready to use for Real-time Polymerase chain reactions (PCR). RNA template can be directly used for cDNA synthesis followed by amplification in a single tube which greatly reduces the total experimental time. The R Fast core qPCR mix comes with all the necessary reagents that are required for cDNA synthesis and amplification in a single experimental setup. The QuickStart Polymerase Enzyme included in the premix (2X) greatly reduces the reaction time thereby speeding up the entire process. The 2X concentrated mix should be diluted to 1X with the template, primers, probes, and molecular grade water. In the regular PCR program, before the actual start of the amplification cycle, the inclusion of an additional step of 5 minutes at 53 oC for cDNA synthesis facilitates the completion of the entire experiment in a single PCR Program. The reagent along with Reverse transcriptase, QuickStart Polymerase enzyme, and dNTPs come with dUTP and Uracil DNA Glycosylase (UDG) enzyme. The incorporation of dUTP in place of dTTP to the growing strand during PCR makes it an ideal degradation target for the UDG enzyme. The UDG enzyme gets inactivated at higher temperatures and therefore does not interfere with the amplification while clearing out any potential contamination that may be carried over from previous experiments. The mix is available with and without UDG.
2.5	Composition/ Information on reagents:	The product contains R Fast core qPCR Mix (2X) with UDG (1.3ml) Note : <i>This product is for 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.</i>
3	Hazards identification	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

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		considered hazardous as defined by the Occupational Safety and Health Administration (OSHA). OSHA Hazards : No Known OSHA Hazards Inhalation : No information available. Ingestion : May be harmful. Skin Contact : No information available. Eye Contact : May cause irritation.
4	First-Aid Measures	For all incidents, a medical exam is desirable Inhalation : Move to fresh air area. Ingestion : Rinse mouth, seek medical advice if immediate vomiting Skin Contact : Wash copiously with water and soap. Eye Contact : Flush eyes copiously with water and seek medical advice
5	Fire-fighting Measures	Extinguishing media: Use any mean suitable to extinguish the surrounding fire CAUTION: Use of water spray when fighting fire may be inefficient. 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
6	Accidental release Measures	Individual Precaution: Use an individual protection equipment Environmental Precaution: If incident, let flow run copiously Method of cleaning: Clean with an inert absorbent
7	Handling and storage	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.
8	Exposure controls	
8.1	Exposure limits	: No information available
9	Personnel Protection	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

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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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