

Doc Name:	Material Safety Data Sheet (MSDS) for Rcore qPCR Mix (4X) with UDG		
Doc No.	MSDS/HL/59	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@huwellifesciences.com http://www.huwellifesciences.in	
2	Product identification		
2.1	Name of the Product	: Rcore qPCR Mix (4X) with UDG	
2.2	Product Code	: HL - URCqPM4X	
2.3	Pack size (No. of rxns)	: 625 μl	
2.4	Intended use:	Rcore qPCR Mix (4X) 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 Rcore qPCR Mix with UDG comes with all the necessary reagents that are required for cDNA synthesis and amplification in a single experimental setup. The 4X 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 53oC for cDNA synthesis facilitates the completion of the entire experiment in a single PCR Program. The reagent along with Reverse transcriptase, Taq DNA 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 Rcore qPCR Mix (4X) with UDG Note: 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.	

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3 Hazards identification			Significant health effects are not a	anticipated from routine use of this ki			
		ation	when following the precautions	e precautions listed within this MSDS and the kit			
			specific package insert. None of the components listed within this kit ar				
			considered hazardous as defined by the Occupational Safety and Healt				
			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		l 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 w	vith water and soap.			
			Eye Contact : Flush eyes copiou	ısly with water and seek medical advic			
5 Fire-fighting Measures		-	Extinguishing media: Use any mean suitable to extinguish the				
		·S	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 Accident		al release	Individual Precaution: Use an individual protection equipment				
	Measures 7 Handling and		Environmental Precaution: If incident, let flow run copiously				
7			Method of cleaning: Clean with an inert absorbent No. specific recommendation is requested. Always store in frozen				
,	storage	, and	No specific recommendation is requested. Always store in frozen condition, Observe all conditions described in the user manual and on the				
	Storage		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 th	· · · · · · · · · · · · · · · · · · ·			
8	Exposure	e controls					
0 1		line the	. No information and the				
8.1	Exposure	IIMICS	: No information available				
9	Personn	el	Respiratory protection : No information available				
	Protection	on	Hands protection: Wear water-proof gloves				
			Eyes protection : Use chemical safety goggles				
			Skin protection : Wear lab coat				
			Hygiene measures: Follow good lab	ooratory hygiene practices and security			

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Doc Name: Material Safety Data Sheet (MSDS) for Rcore qPCR Mix (4X) with UDG Doc No. MSDS/HL/59 Ver No:00 Effective from: 02/11/23 Instructions 10 Physical and Chemical properties 10.1 Physical state : Liquid Chemical, physical, and toxicological properties have not been thoroughly investigated Stability and Stability: Stable under conditions described in the Product insert 11 reactivity Materials to avoid: No information available Hazardous decomposition Products: No information available 12 Toxicological Potential effects on health information Eyes : No information available Skin : No information available Inhalation : No information available Ingestion : No information available Special Effects Carcinogen : No information available : No information available Mutagen Toxicity for reproduction : No information available Sensitization : No information available 13 **Ecological** Mobility : No information available information 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** The product is not dangerous. Follow IATA regulations information 15 Regulatory No information available information 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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