

Doc Name:	Material Safety Data Sheet (MSDS) for 2X SYBR Green PCR Mix with UDG		
Doc No.	MSDS/HL/65	Ver No:00	Effective from: 02/11/23

<b>1</b>	<b>Company identification</b>	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: <a href="mailto:info@huwellifesciences.com">info@huwellifesciences.com</a> <a href="http://www.huwellifesciences.in">http://www.huwellifesciences.in</a>
<b>2</b>	<b>Product identification</b>	
<b>2.1</b>	Name of the Product	: 2X SYBR Green PCR Mix with UDG
<b>2.2</b>	Product Code	: HL - USYPCM-100
<b>2.3</b>	Pack size (No. of rxns)	: 1.3 ml
<b>2.4</b>	Intended use:	<p>2X SYBRGreen PCR Mix with UDG is ready to use concentrated mix with the detection reagent for Real-Time Polymerase chain reactions. The mix includes HotStart Taq Polymerase Enzyme, buffer, dNTPs, and SYBR Green detection reagent. The fluorescent SYBRGreen reagent binds to the growing strand of DNA and is proportional to the polymerization.</p> <p>The quantity of double-stranded DNA formed can be correlated with the amount of SYBRGreen intercalation in DNA, hence it helps in quantitative experiments. The mix contents do not interfere with the Polymerization. Therefore, it can be safely used for the detection of dsDNA as and when it is formed. SYBRGreen dye is sensitive to light, therefore should not be exposed to light for a long period. The reagent along with HotStart Taq Polymerase Enzyme, 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, 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.</p>
<b>2.5</b>	Composition/ Information on reagents:	<p>The product contains 2X SYBR Green PCR Mix with UDG</p> <p><b>Note</b> : <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></p>
<b>3</b>	<b>Hazards identification</b>	Significant health effects are not anticipated from routine use of this kit when following the precautions listed within this MSDS and the kit

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		specific package insert. None of the components listed within this kit are 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.	
<b>4</b>	<b>First-Aid Measures</b>	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	
<b>5</b>	<b>Fire-fighting Measures</b>	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	
<b>6</b>	<b>Accidental release Measures</b>	Individual Precaution: Use an individual protection equipment Environmental Precaution: If incident, let flow run copiously Method of cleaning: Clean with an inert absorbent	
<b>7</b>	<b>Handling and storage</b>	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.	
<b>8</b>	<b>Exposure controls</b>		
<b>8.1</b>	Exposure limits	: No information available	
<b>9</b>	<b>Personnel Protection</b>	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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<b>10</b>	<b>Physical and Chemical properties</b>		
<b>10.1</b>	Physical state	: Liquid Chemical, physical, and toxicological properties have not been thoroughly investigated	
<b>11</b>	<b>Stability and reactivity</b>	Stability: Stable under conditions described in the Product insert Materials to avoid: No information available Hazardous decomposition Products: No information available	
<b>12</b>	<b>Toxicological information</b>	<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	
<b>13</b>	<b>Ecological information</b>	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	
<b>14</b>	<b>Transportation information</b>	The product is not dangerous. Follow IATA regulations	
<b>15</b>	<b>Regulatory information</b>	No information available	
<b>16</b>	<b>Other Information</b>	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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