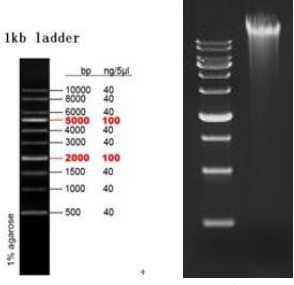


CERTIFICATE OF ANALYSIS

General information

Name	MSI-H-U4 (90.38%) Reference Standard (M20-5809_Tumor)
Catalog No.	CBP80002-8
Lot No.	CGD26266408
Format	Genomic DNA
Buffer	Tris-EDTA
Storage Conditions	-20°C
Date of Manufacture	Oct.-09-2019
Expiry	36 months from the date of manufacture

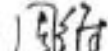
Quality Control

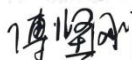
Test Items	Standard	Results	Passed																								
Quantity	1ug/vial*1vial	1ug/vial*1vial	√																								
Concentration	Qubit 3.0	40 ng/uL±10%	√																								
OD260/OD280	1.75~1.9	1.76	√																								
DNA electrophoresis	No Degradation	 <p> 1kb ladder bp ng/5ul 10000 40 8000 40 6000 40 5000 100 4000 40 3000 40 2000 100 1500 40 1000 40 500 40 1% agarose M 1 M: Marker 1: MSI-H-U4 (90.38%) Reference Standard (M20-5809_Tumor) </p>	√																								
MSI/MSS	PCR	MSI-H <table border="1"> <thead> <tr> <th colspan="3">M20-5809</th> </tr> <tr> <th>Marker</th> <th>Size 1</th> <th>Size 2</th> </tr> </thead> <tbody> <tr> <td>NR21</td> <td>127.27</td> <td></td> </tr> <tr> <td>Bat26</td> <td>169.60</td> <td></td> </tr> <tr> <td>Bat25</td> <td>112.33</td> <td>116.07</td> </tr> <tr> <td>NR27</td> <td>149.24</td> <td>155.50</td> </tr> <tr> <td>NR24</td> <td>132.59</td> <td></td> </tr> <tr> <td>Mono27</td> <td>166.46</td> <td></td> </tr> </tbody> </table>	M20-5809			Marker	Size 1	Size 2	NR21	127.27		Bat26	169.60		Bat25	112.33	116.07	NR27	149.24	155.50	NR24	132.59		Mono27	166.46		√
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Caution:

For research use only.

If you have any questions about the Certificate of Analysis, please contact us.

Certified by:  Date:****

 Date: ****