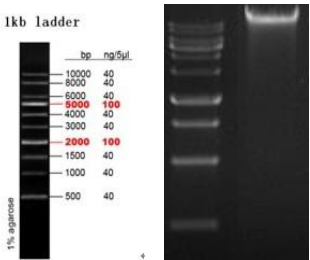


CERTIFICATE OF ANALYSIS

General information

Name	tTMB-P4(21.09) Reference Standard_Tumor
Catalog No.	CBP80001-4
Lot No.	CGD39784468
Format	Genomic DNA
Buffer	Tris-EDTA
Storage Conditions	-20°C
Date of Manufacture	Nov.-21-2019
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	1.88	√
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: tTMB-P4(21.09) Reference Standard Tumor </p>	√
TMB Value	500x WES	21.09(Pair)-cut off 2% 20.82(Pair)-cut off 3% 20.61(Pair)-cut off 4% 20.53(Pair)-cut off 5%	√


For detail data of WES, please contact us.

Caution:

For research use only.

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

Certified by:  Date:****

 Date: ****