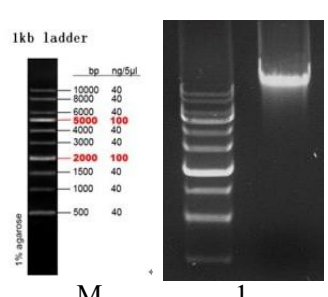


# CERTIFICATE OF ANALYSIS

## General information

Name	tTMB-P3(12.41) Reference Standard_Tumor
Catalog No.	CBP80001-3
Lot No.	CGD49911991
Format	Genomic DNA
Buffer	Tris-EDTA
Storage Conditions	-20°C
Date of Manufacture	Nov.-06-2021
Expiry	36 months from the date of manufacture

## Quality Control

Test Items	Standard	Results	Passed
Quantity	1.00 µg/vial*1 vial	1.00 µg/vial*1 vial	√
Concentration	40.00 ng/uL±10%	41.80 ng/uL by Qubit 3.0 detection	√
OD <sub>260</sub> /OD <sub>280</sub>	1.7~2.1	1.88 by Nanodrop detection	√
DNA electrophoresis	No Degradation	 <p>1kb ladder</p> <p>bp ng/µl</p> <p>10000 40</p> <p>8000 40</p> <p>6000 40</p> <p>5000 100</p> <p>4000 40</p> <p>3000 40</p> <p>2000 100</p> <p>1500 40</p> <p>1000 40</p> <p>500 40</p> <p>M</p> <p>1</p> <p>M: Marker</p> <p>1: tTMB-P3(12.41) Reference Standard_Tumor</p>	√
TMB Value	12.41(Pair)-cut off 2%	12.41(Pair)-cut off 2% 11.87(Pair)-cut off 3% 11.52(Pair)-cut off 4% 11.43(Pair)-cut off 5% By 500x WES detection	√


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: \*\*\*\*