

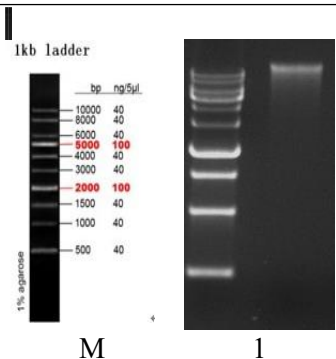
# CERTIFICATE OF ANALYSIS

## Panel-Ref® gDNA Cocktail VIII Reference Standard

### Product information

Name	Panel-Ref® gDNA Cocktail VIII Reference Standard
Catalog No.	CBP90020
Lot No.	CGD52495821
Format	Genomic DNA
Buffer	Tris-EDTA
Storage Conditions	-20°C
Date of Manufacture	Dec.-23-2021
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%	√
OD <sub>260</sub> /OD <sub>280</sub>	1.7~2.0	1.84	√
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         </p> <p>M                      1</p> <p>M: Marker 1: Panel-Ref® gDNA Cocktail VIII Reference Standard</p>	√

Gene	AA Change	CDS Change	Expected %AF	Measured %AF
EGFR	E709A	c.2126A>C	5%	5.63%
EGFR	L747_A750>P	c.2239_2248insTTAAGAGAAG>C	5%	4.83%
EGFR	C797S	c.2389T>A	5%	5.82%
ERBB2	G776>VC	c.2326_2327insTGT	5%	4.86%
KRAS	Q61R	c.182A>G	5%	4.37%
KRAS	G13D	c.38G>A	5%	5.28%

NRAS	Q61R	c.182A>G	5%	5.65%
AKT1	E17K	c.49G>A	5%	4.38%
BRCA2	I675fs	N/A	5%	4.25%
RET	KIF5B-RET	N/A	5%	4.48%
ABL1	BCR-ABL1	N/A	5%	5.89%
MDM2	CNV	N/A	CN=5	CN=4.63
CDK6	CNV	N/A	CN=5	CN=4.47

**Caution:**

For research use only.

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

Certified by:  Date:\*\*\*\*