

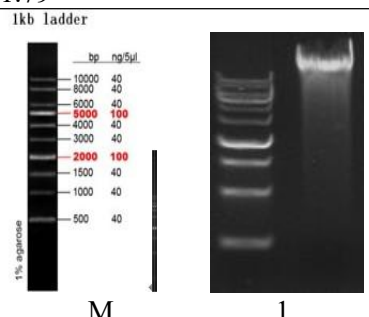
CERTIFICATE OF ANALYSIS

Panel-Ref® gDNA Cocktail V Reference Standard

Product information

Name	Panel-Ref® gDNA Cocktail V Reference Standard
Catalog No.	CBP90014
Lot No.	GBD56629921
Format	Genomic DNA
Buffer	Tris-EDTA
Storage Conditions	-20°C
Date of Manufacture	Mar.-06-2021
Expiry	36 months from the date of manufacture

Quality Control

Test Items	Standard	Results	Passed
Quantity	5ug/vial*1vial	5ug/vial*1vial	√
Concentration	Qubit 3.0	40 ng/uL±10%	√
OD ₂₆₀ /OD ₂₈₀	1.7~2.0	1.79	√
DNA electrophoresis	No Degradation	 <p>1kb ladder</p> <p>bp ng5ul</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: Panel-Ref® gDNA Cocktail V Reference Standard</p>	√

Gene	AA Change	CDS Change	Expected %AF	Measured %AF
EGFR	p.E746_A750del eLELRĒA	c.2235_2249del15 GGAATTAAGAGAAGC>-	3%	3.08
EGFR	p.L858R	c.2573T>G	3%	3.14
EGFR	p.T790M	c.2369C>T	3%	3.23
EGFR	p.G719S	c.2155G>A	3%	3.38
BRAF	p.V600E	c.1799T>A	内源突变	N/A
KRAS	p.G12D	c.35G>A	3%	2.92

KRAS	p.Q61H	c.183A>C	内源突变	N/A
PIK3CA	p.E545K	c.1633G>A	3%	3.17
PIK3CA	p.H1047R	c.3140A>G	内源突变	N/A
EML4-ALK	E13-A20	DNA Translocation	3%	2.91
CCDC6-RET	E1-E12	DNA Translocation	3%	2.83
ERBB2	CNV	Amplification	CN=4	CN=3.2

DdPCR Acceptance criteria

Expected value	Acceptance criteria	Expected value	Acceptance criteria
<1%	Expected value \pm 50%	<5 copies	Expected value \pm 30%
\geq 1% and <5%	Expected value \pm 30%	\geq 5 and <10 copies	Expected value \pm 20%
\geq 5% and <10%	Expected value \pm 20%	\geq 10 copies	Expected value \pm 10%
\geq 10%	Expected value \pm 10%		

Caution:

For research use only.

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

Certified by:  Date:****

 Date:****