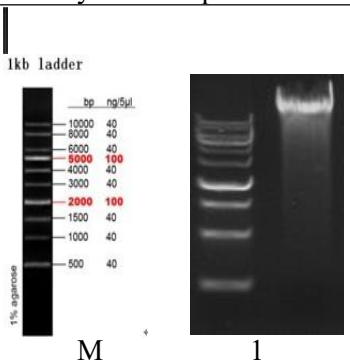
CERTIFICATE OF ANALYSIS

Product information

Name	Panel-Ref® gDNA Cocktail IV Reference Standard
Catalog No.	CBP90022
Lot No.	CBFA23040501
Format	Genomic DNA
Buffer	Tris-EDTA
Storage Conditions	4℃
Date of Manufacture	2023/04/05
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%	40.40 ng/uL by Qubit 3.0 detection	√
OD_{260}/OD_{280}	1.7~2.1	1.90 by Nanodrop detection	√
DNA electrophoresis	No Degradation	 M 1 M: Marker 1: Panel-Ref® gDNA Cocktail IV Reference Standard	√
MSS/MSI status	MSI-H	MSI-H by PCR detection CBP90011 MSI-H Marker / Size 1 / Size 2 / Size 3 / Size 4 / Size 5 / Size 6 NR21 122.49 131.52 Bat26 164.07 175.25 PentaC 208.81 219.19 224.43 229.56 234.78 240.00 Bat25 112.18 117.81 NR27 141.74 146.23 155.21 PentaD 177.24 181.77 186.46 196.15 Amel 106.82 112.37 NR24 123.14 131.05 Mono27 163.28 170.04	√

Gene	AA Change	CDS Change	Expected %AF	Measured %AF
EGFR	p.G719S	c.2155G>A	5%	4.66%
BRAF	p.V600K	c.1798_1799GT>AA	5%	4.49%

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PIK3CA	p.H1047R	c.3140A>G	5%	5.09%
KRAS	p.G13D	c.38G>A	5%	5.98%
NRAS	p.G12D	c.35G>A	5%	4.37%
BRCA2	p.I2675Dfs*6	c.8021dup	5%	5.86%
SLC34A2-ROS1	E4-E32	DNA Translocation	5%	4.65%
EML4-ALK	E6-A20	DNA Translocation	5%	5.67%
CCDC6-RET	E1-E12	DNA Translocation	5%	5.48%
MET	Exon 14 Skippig	c.3082+1G>T	5%	5.09%
ERBB2	CNV	Amplication	CN=6	CN=5.23
MYC	CNV	Amplication	CN=7	CN=6.12

DdPCR Acceptance criteria

Expected value	**Acceptance criteria**	**Expected value**	**Acceptance criteria**
0%	≤0.1%	<5 copies	Expected value ± 30%
<1%	Expected value ± 50%	≥5 and <10 copies	Expected value ± 20%
≥1% and <5%	Expected value ± 30%	≥10 copies	Expected value ± 15%
≥5% and <10%	Expected value ± 20%		
≥10%	Expected value ± 10%		

Caution:

For research use only.

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

Certified by: Date:****

Date:****