

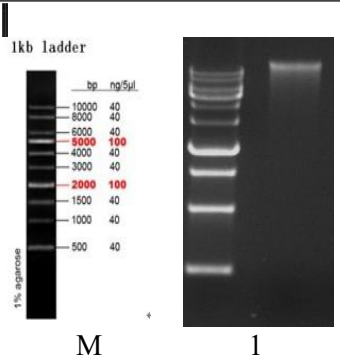
CERTIFICATE OF ANALYSIS

Panel-Ref™ BRCA1/2 Somatic Mutation Cocktail I

Product information

Name	Panel-Ref™ BRCA1/2 Somatic Mutation Cocktail I
Catalog No.	CBP90019
Lot No.	CGD94552083
Format	Genomic DNA
Buffer	Tris-EDTA
Storage Conditions	-20°C
Date of Manufacture	Jun.-27-2020
Expiry	36 months from the date of manufacture

Quality Control

Test Items	Standard	Results	Passed
Quantity	0.5ug/vial*1vial	0.5ug/vial*1vial	√
Concentration	Qubit 3.0	40 ng/uL	√
OD ₂₆₀ /OD ₂₈₀	1.7~2.0	1.84	√
DNA electrophoresis	No Degradation	 <p> 1kb ladder bp ng/5ul 10000 40 8000 40 6000 40 4000 40 3000 40 2000 100 1500 40 1000 40 500 40 1% agarose M 1 M: Marker 1: Panel-Ref™ BRCA1/2 Somatic Mutation Cocktail I </p>	√

Gene	Clinical significance	cDNA Change	AA Change	%AF	WES-500x	dPCR
BRCA1	Benign	c.4837A>G	p.S1634G	5.00%	5.64%	N/A
BRCA1	Benign	c.3548A>G	p.K1183R	5.00%	2.69%	N/A
BRCA1	Benign	c.2612C>T	p.P871Q	10.00%	47.36%	N/A
BRCA1	Benign	c.2458A>G	K820E	5.00%	5.05%	N/A

BRCA1	Benign	c.2082C>T	p.S694S	5.00%	6.2%	N/A
BRCA1	Uncertain significance	c.1303G>T	p.D435Y	5.00%	4.41%	5.07%
BRCA2	Benign	c.865A>C	p.N289D	5.00%	2.99%	N/A
BRCA2	Benign	c.2229T>C	p.H743H	5.00%	5.1%	N/A
BRCA2	Benign	c.2971A>G	p.N991D	5.00%	4.95%	N/A
BRCA2	Benign	c.3516G>A	p.S1172S	5.00%	4.8%	N/A
BRCA2	Benign	c.3807T>C	p.V1269V	5.00%	6.45%	N/A
BRCA2	Benign	c.4563A>G	p.L1521L	15.00%	100%	N/A
BRCA2	Pathogenic	c.5345delA	p.N1784fs	10.00%	12.3%	10.3%
BRCA2	Benign	c.6513G>C	p.V2171V	15.00%	100%	N/A
BRCA2	Benign	c.7397T>C	p.V2466A	15.00%	100%	100%
BRCA1	Pathogenic	c.4327C>T	p.R1443*	5.00%	N/A	N/A
BRCA2	Benign	c.3396A>G	p.K1132K	5.00%	47.31%	N/A
BRCA2	Benign	c.4258G>T	p.D1420Y	5.00%	6.33%	N/A
BRCA2	Pathogenic	c.5067delA	p.K1691fs	5.00%	N/A	N/A
BRCA2	Benign	c.7242A>T	p.S2414S	N/A	32.89%	N/A
BRCA2	Benign	c.1365A>T	p.S455S	N/A	3.87%	N/A

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:****