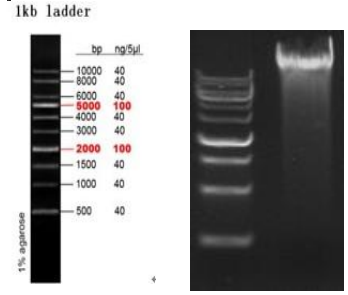
CERTIFICATE OF ANALYSIS
Panel-Ref® BRCA1/2 Germline Mutation Cocktail II

Product information

Name	Panel-Ref® BRCA1/2 Germline Mutation Cocktail II
Catalog No.	CBP90018
Lot No.	GBD56969137
Format	Genomic DNA
Buffer	Tris-EDTA
Storage Conditions	-20℃
Date of Manufacture	Oct.-08-2021
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_{260}/OD_{280}	1.7~2.0	1.91	√
DNA electrophoresis	No Degradation	 M 1 M: Marker 1: Panel-Ref® BRCA1/2 Germline Mutation Cocktail II	√

Gene	Clinical significance	Allele origin	mRNA	DNA Change	AA Change	%AF	WES-500x	DdPCR
BRCA1	Benign	Germline	NM_007300.4	c.4900A>G	p.S1634G	50	46.77	49.33
BRCA1	Benign	Germline	NM_007300.4	c.4308T>C	p.S1436=	50	52.15	N/A
BRCA1	Benign	Germline	NM_007300.4	c.3548A>G	p.K1183R	50	46.63	51.03
BRCA1	Benign	Germline	NM_007300.4	c.3113A>G	p.E1038G	50	47.97	N/A
BRCA1	Benign	Germline	NM_007300.4	c.2612C>T	p.P871L	50	48.61	50.15
BRCA1	Benign	Germline	NM_007300.4	c.2311T>C	p.L771=	50	49.3	99.96

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BRCA1	Benign	Germline	NM_007300.4	c.2082C>T	p.S694=	50	46.9	N/A
BRCA1	Pathogenic	Germline	NM_007300.4	c.1961del	p.K654Sfs*47	50	50.15	49.07
BRCA2	Benign	Germline	NM_000059.3	c.3396A>G	p.K1132=	50	48.59	N/A
BRCA2	Likely_benign	Germline	NM_000059.3	c.4314C>T	p.V1438=	50	47.2	N/A
BRCA2	Benign	Germline	NM_000059.3	c.4563A>G	p.L1521=	100	100	100
BRCA2	Benign	Germline	NM_000059.3	c.6513G>C	p.V2171=	100	100	100
BRCA2	Benign	Germline	NM_000059.3	c.7242A>G	p.S2414=	50	46.52	N/A
BRCA2	Conflicting_interpretations_of_pathogenicity	Germline	NM_000059.3	c.7397T>C	p.V2466A	100	100	100

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:****