

Technical Product Report

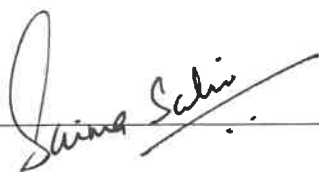
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Product Description:	SeraSeq gDNA BRCA1/2 LGR Inherited Mutation Mix		
Material Number:	0730-0568	Batch Number:	10788502
Material Description:	A genomic DNA mutation mix containing deletions, insertions, single nucleotide variants, and large genomic rearrangements (LGRs) in BRCA1 and BRCA2 genes blended with GM24385 DNA as reference wild-type background		
Fill Volume:	25 µL		
Date of Manufacture:	21 OCT 2025	Expiration Date:	21 OCT 2029
Concentration Test Method:	Invitrogen™ Qubit™ dsDNA BR Assay		
Nominal Concentration:	15 ng/µL		
Concentration:	22.1 ng/µL		
dPCR Test Method:	Allele-specific digital PCR assays on Bio-Rad QX200 QX200 Droplet Digital™ System		
NGS Assay Test Method:	200 ng DNA was used to prepare NGS libraries using the Agilent SureSelect ^{XT} Low Input Target Enrichment System with dual Indexing protocol and enriching with SureSelect ^{XT} Human All Exon v8 exome probes. Variant Allelic frequencies VAFs were calculated from mutant and reference reads generated from Whole Exome Sequencing analysis.		

Gene	Nucleotide change	Protein change	% Allele Frequency (dPCR)	% Allele Frequency (NGS)
BRCA1	c.4487_4675+2del	Splice variant	51.5	ND
BRCA1	c.4186_4357dup	p.R1397Yfs*2	49.5	45.7
BRCA1	c.2071_2171del	p.R691*	50.4	40.7
BRCA1	c.4987_5074del	p.V1665Sfs*8	49.9	ND
BRCA1	c.5279_5332del	p.I1760_D1778delinsN	50.8	13.2
BRCA1	c.5209_5248delinsTC	p.R1737Sfs*80	46.1	23.4
BRCA1	c.2820_2830delinsAAGATAAGCCAGTTTGATAA	p.D940_C944delinsER*	50.4	45.9
BRCA1	c.1961del	p.K654Sfs*47	50.4	37.6
BRCA1	c.4327C>T	p.R1443*	49.5	39.0
BRCA1	c.441+2T>G	Splice variant	48.9	47.0
BRCA2	c.8757-2_9023del	Splice variant	50.3	25.0
BRCA2	c.2886_3144del	p.H962Qfs*6	51.3	46.8
BRCA2	c.68_316del	p.D23_L105del	47.8	ND
BRCA2	c.5150_5226delinsTACTTAATACTTA TTAAGTATTA	p.E1717_N1742delinsVLNTY*	51.3	42.4
BRCA2	c.891_899delinsGATACTTCAG	p.T298Ifs*7	48.5	39.3
BRCA2	c.5436del	p.E1812Dfs*3	51.3	47.3
BRCA2	c.8167G>C	p.D2723H	52.9	51.6
BRCA2	c.8331+2T>A	Splice variant	52.9	51.5
BRCA2	c.910G>T	p.E304*	48.5	41.0
BRCA2	c.2407dup	p.Y803Lfs*2	51.3	52.7

Approval:

Prepared By



Date

15-DEC-2015