

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description: Seraseq® BRCA 1/2 Exon Deletions DNA Mix

Material Number: 0730-0570

Batch Number: 10756073

Material Description: A mixture of human genomic DNA from the reference cell line, GM24385, and biosynthetic DNA consisting of the BRCA1 gene with a deletion of exon 10 and the BRCA2 gene with a deletion of exon 10-14.

Fill Volume: 25 µL

Date of Manufacture: 29 APR 2025

Expiration Date: 29 APR 2029

Storage: -30 °C to -10 °C

Concentration (Qubit dsDNA BR Assay): Nominal: 15 ng/µL
Average measured value: 23.1 ng/µL

Digital PCR Test Method: Bio-Rad QX200™ Droplet Digital™ PCR System

Digital PCR Result:

Gene	Transcript	Nucleotide Change	Protein Change	Variant Allele Frequency (%)
BRCA1	ENST00000357654.9	c.671-56_4096+89del	p.(Ala224_Leu1365del)	60.1
BRCA2	ENST00000380152.8	c.794-97_7435+146del	p.(Gly265_Leu2478del)	59.7

NGS Assay Test Method: Whole Genome Sequencing (WGS) was performed using NxSeq AmpFREE Low DNA library. Sequencing was conducted on the Illumina NextSeq 2000 platform using a P1-300 cycle kit and 200 ng DNA input. The run generated approximately 69.1 million read pairs.

NGS Assay Result: Deletions on the BRCA1 and BRCA2 genes were observed.

Approval:



07 MAY 2025

Prepared By

Date