

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description: Seraseq® MSI Reference Panel Mix AF20%

Product	Material Number	Batch Number
Seraseq® MSI Reference Panel Mix AF20%	0710-1676	10824767
Kit Components		
Seraseq® MSI Panel Mix AF20% (Tumor)	0710-1863	10824766
Seraseq® MSI Matched WT gDNA (Normal)	0710-1864	10766447

The Seraseq MSI Panel Mix AF20% (Tumor) vial contains biosynthetic DNAs with altered lengths of five MSI mononucleotide markers blended with genomic DNA from GM24385 WT reference cell line at 20% allelic frequency. Seraseq® MSI Matched WT gDNA (Normal) is genomic DNA from GM24385 WT cell line.

Fill Volume: 15 µL

Date of Manufacture: 14 SEP 2026

Expiration Date: 23 JUL 2029

Storage: -20 °C

Concentration (Qubit dsDNA BR Assay): Seraseq® MSI Panel Mix AF20% (Tumor): 21.8 ng/µL
Seraseq® MSI Matched WT gDNA (Normal): 22.1 ng/µL

Target Allele Frequency: 20%

Allele frequency determined using laboratory developed digital PCR assays and BioRad QX200™ Droplet Digital™ PCR System.

Test Method:

Marker	Gene	Chromosome	Position (hg19 based)	Comment	Measured Allele Frequency (dPCR)
BAT-25	KIT (intron16)	chr4	55598211	25T -> 19T	20.9
BAT-26	MSH2 (intron5)	chr2	47641559	27A -> 17A	19.9
NR-21	SLC7A8 (5'UTR)	chr14	23652346	21A -> 13A	20.6
NR-24	ZNF2 (3'UTR)	chr2	95849361	23T -> 17T	20.5
MONO-27 ¹	MAP4K3 (intron3)	chr2	39573062	27A -> 21A	19.6
	MAP4K3 (intron13)		39536689		20.6

¹There is ambiguity in the literature on the MONO-27 locus so two constructs are included in the product to ensure compatibility. See J Bacher, R Halberg, M Kent-First, and KV Wood. "Methods and kits for detecting mutations" US Patent US20090068646A1 issued March 12, 2009. See also Pino, Maria S, and Daniel C Chung. "Application of molecular diagnostics for the detection of Lynch syndrome." Expert review of molecular diagnostics vol. 10,5 (2010): 651-65. doi:10.1586/erm.10.45

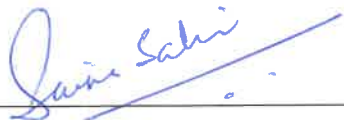
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Approval:

Prepared By

A handwritten signature in blue ink that reads "Sauri Sahni".

Date

16-Sep-2026