

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description: Seraseq® Blood TMB Mix Score 26

Material Number: 0710-2090 Batch Number: 10693945

Material Description: Reference standard made from a human lung cancer cell line and its matched "normal" cell line generated from peripheral blood of the same patient. Extracted genomic DNA was blended at 3 tumor fractions (0%, 0.5% and 2%) and fragmented and sized to mimic ctDNA.

Date of Manufacture: 08 MAR 2024 Expiration Date: 08 MAR 2028

Fill Volume: 20 µL

Concentration Test Method: Qubit dsDNA BR Assay

Nominal Concentration: 10 ng/µL

Fragment Size Test Method: Agilent Bioanalyzer High Sensitivity DNA Analysis

Acceptance Criteria for Average Fragment Size: 150-220 bp

NGS Assay Test Method: 50 ng of each product was used as input in the Illumina TruSight Oncology 500 enrichment kit and sequenced on a Novaseq NGS System (PE100). Each sample was represented by a minimum of 800M paired end reads and 35,000X coverage.

Kit Component	Measured Concentration (ng/µL)	Average Fragment Size (bp)	Blood TMB Score	Adjusted ¹ Blood TMB Score
Seraseq Blood TMB Mix Score 26 (0% tumor)	20.6	188 bp	6.56	N/A
Seraseq Blood TMB Mix Score 26 (0.5% tumor)	26.8	191 bp	19.54	12.98
Seraseq Blood TMB Mix Score 26 (2% tumor)	21.1	183 bp	24.33	17.77

¹Score subtracts somatic contributions/Mb of 0% tumor (WT) blend.
Note: TMB variant lists and VCFs available upon request.

Approval:



15 MAR 2024

Prepared By

Date