

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description:	Seraseq® FFPE TMB RM Score 7		
Material Number:	0710-1310	Batch Number:	10712020
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. Cells were mixed at 30% tumor, fixed with 10% formalin, and embedded in paraffin.		
Fill Size:	2x10 µm FFPE curls		
Date of Manufacture:	03 SEP 2024	Expiration Date:	03 SEP 2028
Extraction and Concentration Test Method:	QIAamp DNA FFPE Tissue Kit for extraction and Qubit dsDNA HS Assay for concentration.		
Measured Yield per Curl:	Seraseq FFPE TMB RM Score 7: 135.4 ng		
Whole Exome Sequencing (WES) Method & Analysis:	<ul style="list-style-type: none"> • Library preparation <ul style="list-style-type: none"> ○ Agilent SureSelectXT Human AllExon V6 + COSMIC (enrichment kit) ○ Capture Region = 32.4 Mb ○ DNA input = 750 ng / run • Whole Exome Sequencing <ul style="list-style-type: none"> ○ Illumina NovaSeq 6000 ○ Average read depth ~166X • TMB Analysis Pipeline metrics and parameters (Based on FoCR TMB harmonization algorithm¹) <ul style="list-style-type: none"> ○ TMB variants = missense, nonsense, frameshift, in-frame insertion, in-frame deletion ○ FILTER=PASS; AF≥0.05; tDP≥25; AO≥3 ○ Aligner = bwa mem ○ Mutation Detection = Mutect2 (tumor-normal mode) ○ Mutation Annotation = SnpEff ○ Mutation Filtration = SnpSift 		
TMB Score by WES:	6.7 ± 0.3 (average and standard deviation of three replicates)		

¹<https://meetinglibrary.asco.org/record/172797/abstract>

Approval:



18 SEP 2024

Prepared By

Date