

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

| Product Description: | Seraseq gDNA TMB Mix Score 20 | | |
|--|--|------------------|-------------|
| Material Number: | 0710-1324 | Batch Number: | 10721342 |
| 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. Genomic DNA was extracted, purified, and characterized for tumor mutational burden. | | |
| Fill Volume: | 10 μL | | |
| Date of Manufacture: | 19 SEP 2024 | Expiration Date: | 19 SEP 2028 |
| Nominal Concentration: | 50 ng/μL | | |
| Concentration Test Method: | Qubit dsDNA BR Assay | | |
| Measured Concentration: | Seraseq gDNA TMB Score 20 (Tumor): 51.4 ng/μL Seraseq gDNA TMB Score 20 (WT): 55.9 ng/μL | | |
| Whole Exome Sequencing (WES) Method & Analysis: | Library preparation Agilent SureSelectXT Human AllExon V6 + COSMIC (enrichment kit) Capture Region = 32.4 Mb DNA input = 1 μg / run Whole Exome Sequencing ILMN NovaSeq 6000 Average read depth ~300x (tumor) and ~100X (normal) Other relevant QC parameters TMB Analysis Pipeline metrics and parameters (Based on FoCR TMB algorithm) 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 | | |
| | 20.6 (average of 1 WES measurements) | | |

Approval:

23 SEP 2024

Date

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