

TPR-0710-2463 Rev. 2

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description: Seraseq® gDNA TMB Reference Panel Mix

Material Number: 0710-2463 Batch Number: 10615103

Reference standards made from a mutagenized lymphoblastoid cell

Material Description: line and its matched "normal" cell line. Genomic DNA was extracted.

purified, and characterized for tumor mutational burden.

Fill Volume: 20 µL per vial

Date of Manufacture: 05 MAY 2022 Expiration Date: 05 MAY 2024

Concentration Test Method: Qubit ds DNA BR Assay

Nominal Concentration: 25 ng/µL

Whole Exome Sequencing

(WES) Method & Analysis

TMB Analysis Pipeline metrics and parameters are based on FoCR TMB harmonization algorithm.¹

 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

Kit Component	Measured Concentration (ng/μL)	TMB Score by WES
Seraseq gDNA TMB Ref. Mix, Score 0	31.3	N/A
Seraseq gDNA TMB Ref. Mix, Score 5	30.8	3.30
Seraseq gDNA TMB Ref. Mix, Score 10	31.7	9.94
Seraseq gDNA TMB Ref. Mix, Score 30	30.5	28.91
Seraseq gDNA TMB Ref. Mix, Score 50	31.8	51.87

Approval:

12 MAY 2022

Prepared By Date

¹ https://jitc.bmj.com/content/8/1/e000147.full