

Revised Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description:

Seraseg® gDNA TMB Reference Panel Mix

Material Number:

0710-2463

Batch Number:

10615103

Material Description:

Reference standards made from a mutagenized lymphoblastoid cell 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 2025

Concentration Test Method:

Qubit ds DNA BR Assay

Nominal Concentration:

25 ng/µL

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

Whole Exome Sequencing (WES) Method & Analysis

• 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:

21 MAY 2024

Prepared By

Date

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