

# Seraseq® gDNA TMB Reference Panel Mix

## FOR VALIDATION AND USE OF TARGETED NGS PANELS IN TMB MEASUREMENTS

### ABOUT LGC SERACARE

TRUSTED SUPPLIER  
TO THE DIAGNOSTIC  
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TO PROVIDE  
ASSURANCE IN  
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### INTRODUCTION

The level of somatic mutations in a tumor, called tumor mutational burden (TMB), is used as a biomarker to predict patient response to immune checkpoint inhibitor therapy, with cancer-type-specific TMB cut-offs of clinical value. Whole exome sequencing (WES) has been the gold standard to measure TMB. While targeted panels have the capacity to estimate TMB, TMB scores can vary significantly depending on the panel size, coverage regions, and bioinformatics pipeline used to make variant calls.

LGC SeraCare has developed Seraseq gDNA TMB Reference Panel Mix, which has been extensively validated using WES and can be used to guide TMB score assessment using targeted panels, especially around values that may be clinical decision points for different tumor types.

Each Seraseq gDNA TMB Reference Panel Mix contains five vials of purified genomic DNA from tumor-like human cell lines encompassing complex genomic signatures over a broad range of TMB scores, all in one kit.

Seraseq gDNA TMB Reference Panel Mix	TMB Score*
Seraseq gDNA TMB Ref Mix, Normal	Baseline
Seraseq gDNA TMB Ref Mix, Score 5	3.30
Seraseq gDNA TMB Ref Mix, Score 10	9.94
Seraseq gDNA TMB Ref Mix, Score 30	28.91
Seraseq gDNA TMB Ref Mix, Score 50	51.87

\*Whole Exome Sequencing (WES) generated TMB scores

### FEATURES

- 100% tumor-like and matched-normal human cell lines, in purified genomic DNA format
- Requires only one matched-normal sample for all scores
- Ready-to-use in WES or targeted NGS library preparation
- Manufactured in GMP-compliant and ISO 13485-certified facility

### ORDERING INFORMATION

Product	Material No.	Concentration	Fill Volume	Total Mass
Seraseq gDNA TMB Reference Panel Mix	0710-2463	25 ng/μl/vial (x5)	20 μl/vial (x5)	500 ng (x5)

To place an order, please contact us at **+1.508.244.6400** and **+1 800.676.1881** or email **[CDx-CustomerService@lgcgroup.com](mailto:CDx-CustomerService@lgcgroup.com)**.

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