

Seraseq® Total Nucleic Acid Reference Materials

NEGATIVE REFERENCE MATERIALS FOR NGS ASSAY OPTIMIZATION IN BOTH FFPE AND MIX FORMATS

HIGHLIGHTS

PURIFIED RNA AND DNA MIXTURES, AND FFPE FROM GM24385 HUMAN CELL LINE AS NEGATIVE SAMPLES

HIGH-QUALITY MANUFACTURED REFERENCE MATERIALS

ABOUT SERACARE

TRUSTED SUPPLIER TO THE DIAGNOSTIC TESTING INDUSTRY FOR OVER 30 YEARS

HIGH-QUALITY CONTROL PRODUCTS, RAW BIOLOGICAL MATERIALS, AND IMMUNOASSAY REAGENTS

INNOVATIVE TOOLS AND TECHNOLOGIES TO PROVIDE ASSURANCE IN DIAGNOSTIC ASSAY PERFORMANCE AND TEST RESULTS

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INTRODUCTION

Molecular assays that profile tumor mutations in solid tissue biopsies require an efficient and precise evaluation of the pre-analytic portion of their workflow prior to downstream analysis by NGS or other methods. The use of contrived (synthetic) reference materials or cell line-based reference materials provides a critical input to the optimization of nucleic acid extraction from very challenging formalin fixed, paraffin embedded (FFPE) tissue materials without wasting precious mutation-positive tissue samples.

We have developed two formats of total nucleic acid (TNA) products derived from GM24385 human cell line as negative sample reference materials for use in targeted NGS assays. The cell line is applied as the WT background in all existing Seraseq tumor DNA and RNA products. As a negative reference material, product consists of extracted DNA and RNA from GM24385 as a buffered mix (TNA WT) as well as FFPE curls at different fixation levels. These are intended to support labs validating assay specificity at wildtype base positions, as well as at positions affected by mutations included in all of the Seraseq RNA and DNA (Mutation Mix and Reference Material) products.

FEATURES AND BENEFITS

- Cell line-based negative reference material (WT)
- Offered as purified RNA and DNA (TNA) for direct use in sequencing library preparation, or as light fixation and moderate fixation FFPE curl (DNA/RNA) for full process assay workflow evaluation
- Derived from the well-characterized GM24385 human cell line
- Manufactured in GMP-compliant and ISO 13485-certified facility

ORDERING INFORMATION

Material No.	Product Name	Format	Size	Yield
0710-0137	Seraseq FFPE WT (DNA/RNA) Reference Material	FFPE	1x10 µm	>100 ng DNA >300 ng RNA
0710-1710	Seraseq Compromised FFPE WT (DNA/RNA) Reference Material	FFPE	1x10 µm	>100 ng DNA >300 ng RNA
0710-1580	Seraseq TNA WT (DNA/RNA) Mix	Purified NA	1 µg	500 ng DNA 500 ng RNA

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