

Certificate of Analysis

For Research Use Only, Not for use in Diagnostic Procedures

Product Description: Seraseq® FFPE Fusion RNA Reference Material v4
 Material No: 0710-0496 Batch No: 10633066
 Date of Manufacture: 03 AUG 2022 Expiration Date: 23 JUN 2024

Vial Contents: 1x 10 µm FFPE curl
 Concentration test Method: Agencourt Formapure RNA extraction followed by Qubit RNA HS Assay Quantitation
 Average RNA Yield: 936.2 ng
 Fusion Test Method: Droplet Digital PCR using TaqMan™ probes tested on the BioRad QX200 system.

Measured Fusion Concentrations:

| RNA Fusion | Digital PCR Average Fusion copies/ng of total RNA |
|----------------------|--|
| CCDC6-RET | 181 |
| CD74-ROS1 | 491 |
| EGFR variant III | 340 |
| EGFR-SEPT14 | 183 |
| EML4-ALK | 206 |
| ETV6-NTRK3 | 317 |
| FGFR3-BAIAP2L1 | 215 |
| FGFR3-TACC3 | 124 |
| KIF5B-RET | 116 |
| LMNA-NTRK1 | 255 |
| MET Exon 14 Skipping | 496 |
| NCOA4-RET | 198 |
| PAX8-PPARG1 | 172 |
| SLC34A2-ROS1 | 584 |
| SLC45A3-BRAF | 296 |
| TFG-NTRK1 | 347 |
| TMPRSS2-ERG | 421 |
| TPM3-NTRK1 | 136 |

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NGS Result: Positive for all 18 fusions and exon skipping events
 NGS Fusion Test Method: Archer® FusionPlex® Solid Tumor Assay tested on the ILMN MiSeq™ instrument (v2, 2 x 150 bp PE kit) using 250 ng of input RNA
 NGS Analysis Method: Data analyzed using Archer Analysis Suite Software version 6.2.7 (default settings)

NGS Data:

| RNA Fusion | NGS Average Unique Start Sites per Fusion | NGS Average Unique Reads per Fusion* |
|----------------------|---|--------------------------------------|
| CCDC6-RET | 173 | 1011 |
| CD74-ROS1 | 151 | 1823 |
| EGFR variant III | 184 | 1527 |
| EGFR-SEPT14 | 366 | 979 |
| EML4-ALK | 198 | 2947 |
| ETV6-NTRK3 | 372 | 3010 |
| FGFR3-BAIAP2L1 | 155 | 4734 |
| FGFR3-TACC3 | 178 | 3885 |
| KIF5B-RET | 207 | 2864 |
| LMNA-NTRK1 | 258 | 4076 |
| MET Exon 14 Skipping | 139 | 330 |
| NCOA4-RET | 128 | 725 |
| PAX8-PPARG1 | 171 | 1415 |
| SLC34A2-ROS1 | 159 | 1183 |
| SLC45A3-BRAF | 78 | 2339 |
| TFG-NTRK1 | 182 | 3089 |
| TMPRSS2-ERG | 160 | 12661 |
| TPM3-NTRK1 | 259 | 3503 |

*Total number of reads per sample was 12.4M.

Approval:

Prepared By  Date 09 AUG 2022
 QA Verified By  Date 10 AUG 2022