

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: 10610614
 Date of Manufacture: 17 FEB 2022 Expiration Date: 05 FEB 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: 962.6 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	192.7
CD74-ROS1	515.1
EGFR variant III	386.2
EGFR-SEPT14	155.4
EML4-ALK	171.7
ETV6-NTRK3	375.2
FGFR3-BAIAP2L1	136.2
FGFR3-TACC3	102.6
KIF5B-RET	102.8
LMNA-NTRK1	239.1
MET Exon 14 Skipping	344.0
NCOA4-RET	211.7
PAX8-PPARG1	159.8
SLC34A2-ROS1	463.8
SLC45A3-BRAF	354.7
TFG-NTRK1	232.9
TMPRSS2-ERG	358.9
TPM3-NTRK1	134.9

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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 Illumina 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 5.1.7 (default settings)

NGS Data:

RNA Fusion	NGS Average Unique Start Sites per Fusion	NGS Average Unique Reads per Fusion*
CCDC6-RET	195	1096
CD74-ROS1	197	2729
EGFR variant III	179	1475
EGFR-SEPT14	393	1107
EML4-ALK	214	2392
ETV6-NTRK3	473	3990
FGFR3-BAIAP2L1	153	1846
FGFR3-TACC3	195	2611
KIF5B-RET	236	2366
LMNA-NTRK1	281	4246
MET Exon 14 Skipping	130	259
NCOA4-RET	156	891
PAX8-PPARG1	178	887
SLC34A2-ROS1	196	1715
SLC45A3-BRAF	85	3936
TFG-NTRK1	191	2823
TMPRSS2-ERG	198	12046
TPM3-NTRK1	302	4248

*Total number of reads per sample was 2.1M.

Approval:

Prepared By  Date 17 FEB 2022
 QA Verified By  Date 18 FEB 2022