

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: 10659791
 Date of Manufacture: 04 APR 2023 Expiration Date: 15 MAR 2025

Vial Contents: 1x 10 µm FFPE curl
 Concentration test Method: Agencourt Formapure RNA extraction followed by Qubit RNA HS Assay Quantitation
 Average RNA Yield: 959.0 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	144
CD74-ROS1	378
EGFR variant III	258
EGFR-SEPT14	128
EML4-ALK	152
ETV6-NTRK3	246
FGFR3-BAIAP2L1	165
FGFR3-TACC3	73
KIF5B-RET	75
LMNA-NTRK1	188
MET Exon 14 Skipping	356
NCOA4-RET	153
PAX8-PPARG1	143
SLC34A2-ROS1	428
SLC45A3-BRAF	207
TFG-NTRK1	256
TMPRSS2-ERG	420
TPM3-NTRK1	134

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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	107	349
CD74-ROS1	77	432
EGFR variant III	143	716
EGFR-SEPT14	159	267
EML4-ALK	127	898
ETV6-NTRK3	208	1022
FGFR3-BAIAP2L1	99	1985
FGFR3-TACC3	122	1682
KIF5B-RET	127	915
LMNA-NTRK1	179	1398
MET Exon 14 Skipping	21	26
NCOA4-RET	76	243
PAX8-PPARG1	102	409
SLC34A2-ROS1	66	302
SLC45A3-BRAF	62	612
TFG-NTRK1	106	963
TMPRSS2-ERG	120	4755
TPM3-NTRK1	129	1158

*Total number of reads per sample was 5M.

Approval:

Prepared By

24 MAY 2023

Date

QA Verified By

24 MAY 2023

Date