

# 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: 10587339  
 Date of Manufacture: 02 NOV 2021 Expiration Date: 16 OCT 2023

Vial Contents: 1x 10 µm FFPE curl  
 Concentration test Method: Agencourt Formapure RNA extraction followed by Qubit RNA HS Assay Quantitation  
 Average RNA Yield: 1262.4 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	134.9
CD74-ROS1	451.4
EGFR variant III	301.4
EGFR-SEPT14	124.0
EML4-ALK	114.6
ETV6-NTRK3	227.2
FGFR3-BAIAP2L1	152.4
FGFR3-TACC3	194.9
KIF5B-RET	97
LMNA-NTRK1	243.7
MET Exon 14 Skipping	337.2
NCOA4-RET	194.2
PAX8-PPARG1	195.4
SLC34A2-ROS1	360.0
SLC45A3-BRAF	191.3
TFG-NTRK1	188.6
TMPRSS2-ERG	377
TPM3-NTRK1	187.9

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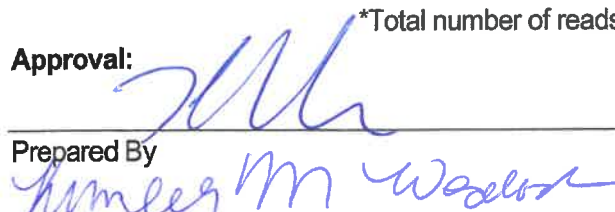
NGS Result: Positive for all 18 fusions and exon skipping events  
 NGS Fusion Test Method: Archer® FusionPlex® Solid Tumor Assay tested on the ILMN MiSeq™ instrument (v2, 2 x 150 bp PE kit) using 250 ng of input RNA  
 NGS Analysis Method: Data analyzed using Archer Analysis Suite Software version 5.1.7 (default settings)

NGS Data:

RNA Fusion	NGS Average Unique Start Sites per Fusion	NGS Average Unique Reads per Fusion*
CCDC6-RET	132	460
CD74-ROS1	131	1158
EGFR variant III	160	957
EGFR-SEPT14	247	496
EML4-ALK	142	1025
ETV6-NTRK3	298	1553
FGFR3-BAIAP2L1	135	2437
FGFR3-TACC3	168	3069
KIF5B-RET	193	1886
LMNA-NTRK1	245	2739
MET Exon 14 Skipping	123	341
NCOA4-RET	121	580
PAX8-PPARG1	139	746
SLC34A2-ROS1	124	658
SLC45A3-BRAF	69	1349
TFG-NTRK1	132	1311
TMPRSS2-ERG	154	9082
TPM3-NTRK1	221	2527

\*Total number of reads per sample was 4.1M.

Approval:

Prepared By:  Date: 08 NOV 2021  
 QA Verified By: \_\_\_\_\_ Date: 08 NOV 2021