

# Certificate of Analysis (Revised)

## 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: 10430471  
 Date of Manufacture: 02-JUL-2019 Expiration Date: 14-JUN-2021

Vial Contents: 1x 10 µm FFPE curl  
 Concentration test Method: Agencourt Formapure RNA extraction followed by Qubit RNA HS Assay Quantitation  
 Average RNA Yield: 1163.4 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	120.7
CD74-ROS1	353.3
EGFR variant III	217.7
EGFR-SEPT14	92.3
EML4-ALK	105.0
ETV6-NTRK3	224.7
FGFR3-BAIAP2L1	113.7
FGFR3-TACC3	136.7
KIF5B-RET	73.7
LMNA-NTRK1	149.0
MET Exon 14 Skipping	198.0
NCOA4-RET	138.7
PAX8-PPARG1	129.7
SLC34A2-ROS1	286.7
SLC45A3-BRAF	157.0
TFG-NTRK1	195.3
TMPRSS2-ERG	312.0
TPM3-NTRK1	99.7

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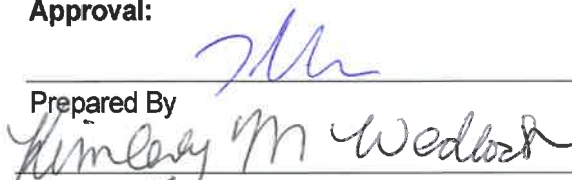
NGS Result: Positive for all 18 fusions and exon skipping events  
 NGS Fusion Test Method: Archer® FusionPlex® Solid Tumor Assay tested on the ILMN MiSeq™ instrument (v2, 2 x 150 bp PE kit) using 250 ng of input RNA  
 NGS Analysis Method: Data analyzed using Archer Analysis Suite Software version (default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

NGS Data:

RNA Fusion	NGS Average Unique Start Sites per Fusion	NGS Average Unique Reads per Fusion*
CCDC6-RET	52	80
CD74-ROS1	26	41
EGFR variant III	79	132
EGFR-SEPT14	190	417
EML4-ALK	39	80
ETV6-NTRK3	105	367
FGFR3-BAIAP2L1	87	603
FGFR3-TACC3	159	1452
KIF5B-RET	68	129
LMNA-NTRK1	48	126
MET Exon 14 Skipping	75	132
NCOA4-RET	31	54
PAX8-PPARG1	51	134
SLC34A2-ROS1	18	23
SLC45A3-BRAF	62	566
TFG-NTRK1	30	54
TMPRSS2-ERG	93	994
TPM3-NTRK1	50	85

\*Total number of reads per sample was 2.92 M.

Approval:

Prepared By:  Date: 22 April 2020  
 QA Verified By: \_\_\_\_\_ Date: 22 APR 2020