

# 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: 10544638  
 Date of Manufacture: 19 MAR 2021 Expiration Date: 07 MAR 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: 1444.4 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	106.6
CD74-ROS1	355.6
EGFR variant III	202.6
EGFR-SEPT14	97.9
EML4-ALK	88.7
ETV6-NTRK3	168.7
FGFR3-BAIAP2L1	72.9
FGFR3-TACC3	112.1
KIF5B-RET	71.9
LMNA-NTRK1	168.1
MET Exon 14 Skipping	273.9
NCOA4-RET	181.0
PAX8-PPARG1	135.2
SLC34A2-ROS1	307.9
SLC45A3-BRAF	135.0
TFG-NTRK1	173.8
TMPRSS2-ERG	176.9
TPM3-NTRK1	191.3

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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	163	752
CD74-ROS1	153	1607
EGFR variant III	173	1079
EGFR-SEPT14	283	632
EML4-ALK	153	1147
ETV6-NTRK3	349	1918
FGFR3-BAIAP2L1	127	1750
FGFR3-TACC3	183	2974
KIF5B-RET	210	2179
LMNA-NTRK1	259	3080
MET Exon 14 Skipping	181	659
NCOA4-RET	146	874
PAX8-PPARG1	155	950
SLC34A2-ROS1	145	851
SLC45A3-BRAF	73	1496
TFG-NTRK1	144	1515
TMPRSS2-ERG	154	9404
TPM3-NTRK1	273	3162

\*Total number of reads per sample was 2.9 M.

Approval:

Prepared By

Date

QA Verified By

Date



22 Mar 2021



22 MAR 2021