

# 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: 10643075  
 Date of Manufacture: 12 DEC 2022 Expiration Date: 04 NOV 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: 1559.3 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	207.0
CD74-ROS1	483.9
EGFR variant III	265.6
EGFR-SEPT14	149.8
EML4-ALK	203.8
ETV6-NTRK3	263.8
FGFR3-BAIAP2L1	178.5
FGFR3-TACC3	162.2
KIF5B-RET	94.0
LMNA-NTRK1	200.5
MET Exon 14 Skipping	421.5
NCOA4-RET	182.4
PAX8-PPARG1	212.7
SLC34A2-ROS1	449.5
SLC45A3-BRAF	223.8
TFG-NTRK1	283.5
TMPRSS2-ERG	421.5
TPM3-NTRK1	176.7

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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 6.2.7 (default settings)

NGS Data:

RNA Fusion	NGS Average Unique Start Sites per Fusion	NGS Average Unique Reads per Fusion*
CCDC6-RET	139	629
CD74-ROS1	116	877
EGFR variant III	162	1132
EGFR-SEPT14	268	535
EML4-ALK	153	1763
ETV6-NTRK3	283	1978
FGFR3-BAIAP2L1	124	2990
FGFR3-TACC3	139	2526
KIF5B-RET	158	1633
LMNA-NTRK1	211	2638
MET Exon 14 Skipping	77	175
NCOA4-RET	102	435
PAX8-PPARG1	136	865
SLC34A2-ROS1	109	534
SLC45A3-BRAF	73	1292
TFG-NTRK1	135	1623
TMPRSS2-ERG	173	10690
TPM3-NTRK1	162	1757

\*Total number of reads per sample was 8.7 M.

Approval:



Prepared By



Date

16 JAN 2023

QA Verified By

Date

17 JAN 2023