

# 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: 10510041  
 Date of Manufacture: 20 JUL 2020 Expiration Date: 18 JUN 2022

Vial Contents: 1x 10 µm FFPE curl  
 Concentration test Method: Agencourt Formapure RNA extraction followed by Qubit RNA HS Assay Quantitation  
 Average RNA Yield: 1083.3 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	126
CD74-ROS1	378
EGFR variant III	315
EGFR-SEPT14	102
EML4-ALK	114
ETV6-NTRK3	273
FGFR3-BAIAP2L1	127
FGFR3-TACC3	154
KIF5B-RET	54
LMNA-NTRK1	222
MET Exon 14 Skipping	235
NCOA4-RET	170
PAX8-PPARG1	163
SLC34A2-ROS1	312
SLC45A3-BRAF	212
TFG-NTRK1	251
TMPRSS2-ERG	89
TPM3-NTRK1	102

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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	141	630
CD74-ROS1	110	490
EGFR variant III	216	1048
EGFR-SEPT14	221	442
EML4-ALK	156	1754
ETV6-NTRK3	232	1320
FGFR3-BAIAP2L1	118	2078
FGFR3-TACC3	188	3940
KIF5B-RET	207	3325
LMNA-NTRK1	207	1665
MET Exon 14 Skipping	44	75
NCOA4-RET	123	596
PAX8-PPARG1	141	933
SLC34A2-ROS1	89	250
SLC45A3-BRAF	70	978
TFG-NTRK1	127	890
TMPRSS2-ERG	83	3534
TPM3-NTRK1	175	996

\*Total number of reads per sample was 5.5 M.

Approval:

Prepared By

Date

QA Verified By

Date



21 JUL 2020



21 JUL 2020