

# 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: 10528033  
 Date of Manufacture: 24-NOV-2020 Expiration Date: 09-OCT-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: 971 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	150
CD74-ROS1	451
EGFR variant III	348
EGFR-SEPT14	133
EML4-ALK	153
ETV6-NTRK3	308
FGFR3-BAIAP2L1	150
FGFR3-TACC3	249
KIF5B-RET	122
LMNA-NTRK1	252
MET Exon 14 Skipping	217
NCOA4-RET	191
PAX8-PPARG1	146
SLC34A2-ROS1	306
SLC45A3-BRAF	259
TFG-NTRK1	341
TMPRSS2-ERG	341
TPM3-NTRK1	157

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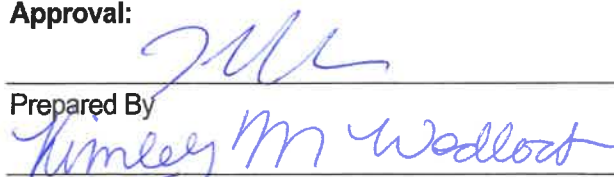
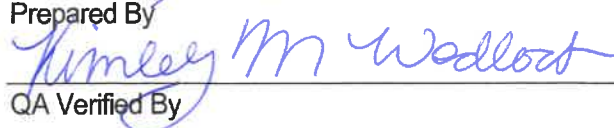
NGS Result: Positive for all 18 fusions and exon skipping events  
 NGS Fusion Test Method: Archer® FusionPlex® Solid Tumor Assay tested on the ILMN MiSeq™ instrument (v2, 2 x 150 bp PE kit) using 250 ng of input RNA  
 NGS Analysis Method: Data analyzed using Archer Analysis Suite Software version 5.1.7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

NGS Data:

RNA Fusion	NGS Average Unique Start Sites per Fusion	NGS Average Unique Reads per Fusion*
CCDC6-RET	141	623
CD74-ROS1	123	655
EGFR variant III	102	244
EGFR-SEPT14	329	1047
EML4-ALK	182	1426
ETV6-NTRK3	361	1607
FGFR3-BAIAP2L1	168	993
FGFR3-TACC3	163	980
KIF5B-RET	215	1802
LMNA-NTRK1	231	2495
MET Exon 14 Skipping	180	596
NCOA4-RET	75	340
PAX8-PPARG1	105	407
SLC34A2-ROS1	141	923
SLC45A3-BRAF	87	5261
TFG-NTRK1	209	1914
TMPRSS2-ERG	103	6967
TPM3-NTRK1	313	3203

\*Total number of reads per sample was 2.1M.

Approval:

Prepared By  Date 02 DEC 2020  
 QA Verified By  Date 03 DEC 2020