

# Certificate of Analysis

**For Research Use Only, Not for use in Diagnostic Procedures**

Product Description: Seraseq Fusion RNA Mix v4  
 Material No: 0710-0497 Batch No: 10597544  
 Date of Manufacture: 17 DEC 2021 Expiration Date: 23 NOV 2023

Nominal Concentration: 25 ng /  $\mu$ L Volume: 25  $\mu$ L  
 Concentration test Method: Thermo Fisher Qubit RNA BR Assay  
 Measured Concentration: 34.2 ng /  $\mu$ L

Nominal Fusion Concentration: 1500 Fusion copies/ $\mu$ L  
 Fusion Test Method: Droplet Digital PCR using TaqMan™ probes run on the BioRad QX200 system

Measured Fusion Concentrations:

RNA Fusion	Digital PCR Average Fusion copies/ $\mu$ L
CCDC6-RET	1429
CD74-ROS1	1743
EGFR variant III	1527
EGFR-SEPT14	1468
EML4-ALK	1449
ETV6-NTRK3	1827
FGFR3-BAIAP2L1	1375
FGFR3-TACC3	2644
KIF5B-RET	1587
LMNA-NTRK1	2379
MET Exon 14 Skipping	2005
NCOA4-RET	3388
PAX8-PPARG1	1597
SLC34A2-ROS1	1461
SLC45A3-BRAF	1501
TFG-NTRK1	1607
TMPRSS2-ERG	1448
TPM3-NTRK1	1216

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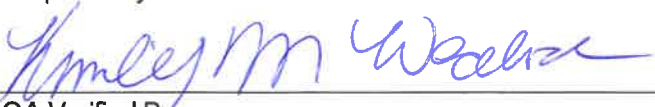
NGS Result: Positive for each of the 18 fusions and exon skipping events  
 NGS Fusion Test Method: Archer® FusionPlex® Solid Tumor Assay run on the Illumina® MiSeq™ instrument (300-cycle Reagent Kit v2, ) at 250 ng RNA input  
 NGS Analysis Method: Data analyzed using Archer Analysis Suite Software version 5.1.7 (default parameters).

NGS Data:

RNA Fusion	NGS Average Unique Start Sites per Fusion	NGS Average Unique Reads per Fusion*
CCDC6-RET	159	827
CD74-ROS1	147	1056
EGFR variant III	124	322
EGFR-SEPT14	300	813
EML4-ALK	188	1340
ETV6-NTRK3	418	2427
FGFR3-BAIAP2L1	166	1077
FGFR3-TACC3	203	2062
KIF5B-RET	217	1767
LMNA-NTRK1	289	5423
MET Exon 14 Skipping	240	1062
NCOA4-RET	181	1729
PAX8-PPARG1	109	458
SLC34A2-ROS1	168	1222
SLC45A3-BRAF	99	8354
TFG-NTRK1	227	2911
TMPRSS2-ERG	119	5367
TPM3-NTRK1	325	2655

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

Approval:

  
 Prepared By \_\_\_\_\_ Date 20 DEC 2021  
  
 QA Verified By \_\_\_\_\_ Date 20 DEC 2021