

# 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: 10569628  
 Date of Manufacture: 16-JUL-2021 Expiration Date: 07-JUN-2023

Nominal Concentration: 25 ng /  $\mu$ L Volume: 25  $\mu$ L  
 Concentration test Method: Thermo Fisher Qubit RNA BR Assay  
 Measured Concentration: 27 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	1343
CD74-ROS1	1833
EGFR variant III	1323
EGFR-SEPT14	1680
EML4-ALK	1636
ETV6-NTRK3	2139
FGFR3-BAIAP2L1	1680
FGFR3-TACC3	2403
KIF5B-RET	1387
LMNA-NTRK1	2125
MET Exon 14 Skipping	2491
NCOA4-RET	3192
PAX8-PPARG1	1661
SLC34A2-ROS1	1671
SLC45A3-BRAF	1495
TFG-NTRK1	1857
TMPRSS2-ERG	1084
TPM3-NTRK1	1263

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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	139	560
CD74-ROS1	118	841
EGFR variant III	94	195
EGFR-SEPT14	212	556
EML4-ALK	160	1127
ETV6-NTRK3	355	1838
FGFR3-BAIAP2L1	130	594
FGFR3-TACC3	160	1094
KIF5B-RET	188	1374
LMNA-NTRK1	258	3899
MET Exon 14 Skipping	179	600
NCOA4-RET	138	934
PAX8-PPARG1	90	378
SLC34A2-ROS1	131	697
SLC45A3-BRAF	92	7704
TFG-NTRK1	212	2151
TMPRSS2-ERG	94	5417
TPM3-NTRK1	270	1957

\*Total number of reads per sample was 1.4 M.

Approval:

Prepared By  Date 28 JUL 2021

QA Verified By  Date 3 AUG 2021