

# 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: 10623459  
 Date of Manufacture: 10 JUN 2022 Expiration Date: 19 APR 2024

Nominal Concentration: 25 ng /  $\mu$ L Volume: 25  $\mu$ L  
 Concentration test Method: Thermo Fisher Qubit RNA BR Assay  
 Measured Concentration: 31 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	2467
CD74-ROS1	1997
EGFR variant III	2915
EGFR-SEPT14	1747
EML4-ALK	1909
ETV6-NTRK3	1837
FGFR3-BAIAP2L1	1664
FGFR3-TACC3	2537
KIF5B-RET	2169
LMNA-NTRK1	1847
MET Exon 14 Skipping	1909
NCOA4-RET	2265
PAX8-PPARG1	1920
SLC34A2-ROS1	2083
SLC45A3-BRAF	2036
TFG-NTRK1	1489
TPRSS2-ERG	2283
TPM3-NTRK1	1141

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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 v6.2.7 (default parameters).

NGS Data:

RNA Fusion	NGS Average Unique Start Sites per Fusion	NGS Average Unique Reads per Fusion*
CCDC6-RET	173	1096
CD74-ROS1	148	1195
EGFR variant III	123	302
EGFR-SEPT14	324	964
EML4-ALK	219	2410
ETV6-NTRK3	365	1526
FGFR3-BAIAP2L1	184	1582
FGFR3-TACC3	210	2467
KIF5B-RET	236	2693
LMNA-NTRK1	251	3731
MET Exon 14 Skipping	198	694
NCOA4-RET	143	877
PAX8-PPARG1	145	691
SLC34A2-ROS1	161	1367
SLC45A3-BRAF	86	6313
TFG-NTRK1	213	2138
TMPRSS2-ERG	109	5845
TPM3-NTRK1	291	2767

\*Total number of reads per sample was 5.0M.

Approval:



Prepared By

14 JUN 2022

Date



QA Verified By

14 JUN 2022

Date