

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: 10646847
 Date of Manufacture: 05 JAN 2023 Expiration Date: 07 JUN 2024

Nominal Concentration: 25 ng / μ L Volume: 25 μ L
 Concentration test Method: Thermo Fisher Qubit RNA BR Assay
 Measured Concentration: 26 ng / μ L

Nominal Fusion Concentration: 1500 Fusion copies/ μ 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/ μ L
CCDC6-RET	1432
CD74-ROS1	1639
EGFR variant III	3976
EGFR-SEPT14	1551
EML4-ALK	1624
ETV6-NTRK3	1364
FGFR3-BAIAP2L1	1293
FGFR3-TACC3	3373
KIF5B-RET	2371
LMNA-NTRK1	1608
MET Exon 14 Skipping	1587
NCOA4-RET	2007
PAX8-PPARG1	1761
SLC34A2-ROS1	2249
SLC45A3-BRAF	1577
TFG-NTRK1	1216
TMPRSS2-ERG	3173
TPM3-NTRK1	1364

Certificate of Analysis

For Research Use Only, Not for use in Diagnostic Procedures

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 6.2.7 (default parameters).
 NGS Data:

RNA Fusion	NGS Average Unique Start Sites per Fusion	NGS Average Unique Reads per Fusion*
CCDC6-RET	147	836
CD74-ROS1	136	1009
EGFR variant III	134	425
EGFR-SEPT14	311	940
EML4-ALK	176	1628
ETV6-NTRK3	372	1747
FGFR3-BAIAP2L1	151	1442
FGFR3-TACC3	194	2266
KIF5B-RET	224	2910
LMNA-NTRK1	245	3630
MET Exon 14 Skipping	161	494
NCOA4-RET	133	922
PAX8-PPARG1	118	704
SLC34A2-ROS1	162	1360
SLC45A3-BRAF	92	6438
TFG-NTRK1	189	1703
TMPRSS2-ERG	145	11100
TPM3-NTRK1	341	3474

*Total number of reads per sample was 5.2 M.

Approval:



16 JAN 2023

Prepared By

Date



17 JAN 2023

QA Verified By

Date