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:	10610745
Date of Manufacture:	17 FEB 2022	Expiration Date:	21 JAN 2024

Nominal Concentration:	25 ng / µL	Volume:	25 µL
Concentration test Method:	Thermo Fisher Qubit RNA BR Assay		
Measured Concentration:	34 ng / µL		

Nominal Fusion Concentration: 1500 Fusion copies/µL

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/µL
CCDC6-RET	1131
CD74-ROS1	1631
EGFR variant III	1501
EGFR-SEPT14	1380
EML4-ALK	1535
ETV6-NTRK3	1876
FGFR3-BAIAP2L1	1056
FGFR3-TACC3	1136
KIF5B-RET	1035
LMNA-NTRK1	1288
MET Exon 14 Skipping	1444
NCOA4-RET	2224
PAX8-PPARG1	2045
SLC34A2-ROS1	1232
SLC45A3-BRAF	2084
TFG-NTRK1	1239
TMPRSS2-ERG	1007
TPM3-NTRK1	1488

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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	138	358
CD74-ROS1	148	819
EGFR variant III	121	345
EGFR-SEPT14	239	533
EML4-ALK	190	1280
ETV6-NTRK3	410	1851
FGFR3-BAIAP2L1	116	560
FGFR3-TACC3	197	1616
KIF5B-RET	200	873
LMNA-NTRK1	237	1905
MET Exon 14 Skipping	146	318
NCOA4-RET	147	570
PAX8-PPARG1	173	658
SLC34A2-ROS1	142	541
SLC45A3-BRAF	91	6858
TFG-NTRK1	210	1471
TMPRSS2-ERG	94	2612
TPM3-NTRK1	312	1978

*Total number of reads per sample was 1.5M.

Approval:

Prepared By — Date: 2/18/2022

QA Verified By — Date: 22 FEB 2022