

# Certificate of Analysis

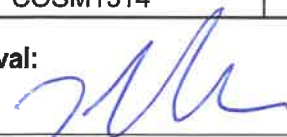
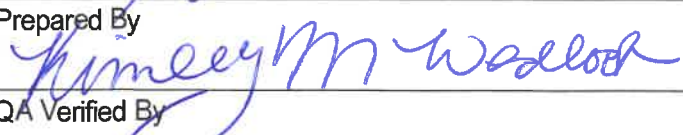
**For Research Use Only**  
**Not for Use in Diagnostic Procedures**

Product Description: Seraseq™ Tumor Mutation DNA Mix v2 AF10, RUO  
 Material No: 0710-0094 Batch No: 10556652  
 Volume: 25 µL Concentration: 25 ng/µL  
 Date of Manufacture: 22 MAR 2021 Expiration Date: 22 MAR 2023  
 Test Method for Concentration: Qubit dsDNA BR Assay  
 Average Concentration (ng/µL): 21.5 ng/µL  
 Test Method for Variant Allele Frequency: In house validated, allele specific, digital PCR assays

Mutation	Average dPCR Allele Frequency
AKT1 COSM33765	11.5
APC COSM13127	9.9
APC COSM18561	8.2
ATM COSM21924	11.5
BRAF COSM476	11.1
CTNNB COSM5664	11.5
EGFR COSM6224	11.3
EGFR COSM6225	8.4
EGFR COSM6240	11.7
EGFR COSM12378	11.7
ERBB2 COSM682	9.6
FGFR3 COSM715	11.7
FLT3 COSM783	9.5
FOXL2 COSM33661	11.2
GNA11 COSM52969	9.7
GNAQ COSM28758	9.6
GNAS COSM27887	10.0
IDH1 COSM28747	10.4
JAK2 COSM12600	9.8
KIT COSM1314	10.2

Mutation	Average dPCR Allele Frequency
KRAS COSM521	9.1
MPL COSM18918	11.9
NPM1 COSM17559	8.3
NRAS COSM584	10.0
PDGFRA COSM736	10.9
PDGFRA COSM28053	8.8
PIK3CA COSM763	9.4
PIK3CA COSM775	10.8
PIK3CA COSM12464	10.0
PTEN COSM4986	11.3
PTEN COSM5809	11.3
RET COSM965	11.0
SMAD4 COSM14105	10.1
TP53 COSM6530	9.7
TP53 COSM10660	10.7
TP53 COSM10662	8.9
TP53 COSM10648	11.4
TP53 COSM18610	Not Assayed
NCOA4-RET	9.7
TPR-ALK	9.5

Approval:

  
 Prepared By \_\_\_\_\_ Date 18 JUN 2021  
  
 QA Verified By \_\_\_\_\_ Date 25 JUN 2021