



Certificate of Analysis

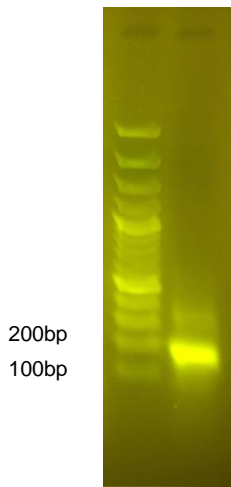
Material name:	AM Multiplexed ctDNA Standard for Capture-Based Assay (3% AF)	
Part number:	60100103	
Fill Amount:	300 ng	
Lot Number:	821029	
Source:	Mixture of nucleosomally-fragmented cell-derived variant and wildtype gDNA. Both variant and wildtype are based on female cell line PAM3005 (WES data available upon request). Fragment size: ~145bp	
Storage Buffer:	10mM TRIS, 0.1 mM EDTA	
Storage Temperature:	30 days at 2-8°C; for longer storage: ≤ -20 °C	
Date of Manufacturing:	7/1/2024	Expiration Date: 7/31/2027

Testing Results

Concentration of DNA: 20 ng/ul measured by DeNovix Ultra-High Sensitivity Assay.

Ratio 260/280: 2.0

DNA profile:



Approval

Name: Yabin Lu

Signature:

DocuSigned by:
Yabin Lu
A68122C2A4CC4F1...

Date: 7/1/2024

The material is for research use only.



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Appendix 1. Test result for SNV and INDEL.

Variant Name	AF% (ddPCR)	AF% (amplicon-based NGS)	Cosmic ID
KRAS G12C	3.33	3.14	COSV55497469
KRAS G12D	3.75	1.91	COSV55497369
KRAS G12V	2.54	2.95	COSV55497419
TP53 R248Q	2.15	2.88	COSV52661580
PIK3CA E545K	3.26	3.10	COSV55873239
PIK3CA H1047R	3.24	3.21	COSV55873195
EGFR T790M	2.52	1.85	COSV51765492
EGFR C797S	2.52	3.78	COSV51766493
EGFR D770_N771insG	2.52	1.85	COSV51769298
EGFR L858R	2.57	2.45	COSV51765161
BRAF V600E	3.25	3.48	COSV56056643
NRAS Q61R	2.85	2.98	COSV54736340
PTEN R130G	3.67	1.92	COSV64288384
TP53 R175H	2.28	1.91	COSV52661038
IDH1 R132H	3.25	2.61	COSV61615239
CTNNB1 T41A	2.24	1.24	COSV62687862
CTNNB1 S33C	2.24	3.93	COSV62687839
FGFR3 S249C	1.98	1.66	COSV53390026
APC Q1429*	2.99	Not Tested	COSV57322632
APC R1450*	3.08	2.12	COSV57321313
EGFR E746-A750del v1	2.61	3.19	COSV51765119
EGFR E746-A750del v2	3.16	2.69	COSV51765066
KIT D816V	2.91	Not Tested	COSV55386424

Note: Heterozygous (50% AF) BRCA1 (P871L) and BRCA2 (N372H) are present.