



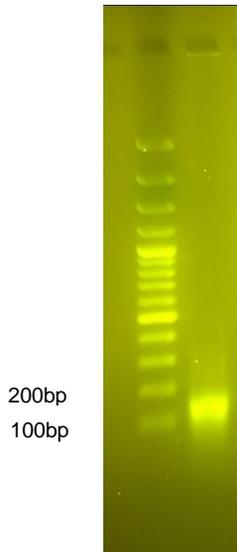
Certificate of Analysis

Material name:	AM ctDNA Extraction Sensitivity Control (3% AF)	
Part number:	60100040 (in TE); 60100540 (in Plasma)	
Lot Number:	821008, 821009	
Source:	Mixture of cell line derived wildtype gDNA and ctDNA fragments (125 -150bp)	
Storage:	≤ -20 °	Expiration Date: 5/31/2025

Testing Results

PN 60100040, LN 821008: Concentration of DNA: 35 ng/ul

PN 60100540, LN 821009: Concentration of DNA: 18 ng/ml



Allele Frequencies of Variants (see Appendices)

Approval

Name: Yabin Lu

Signature: _____

Date: _____

Caution

The material is for research use only.

Appendix 1. ddPCR and Ligation-mediated NGS results

Variant Name	ddPCR AVG AF%	ddPCR STDEV	Cosmic ID
KRAS G12C	4.47	0.51	COSV55497469
KRAS G12D	6.06	0.58	COSV55497369
KRAS G12V	2.58	0.24	COSV55497419
TP53 R248Q	1.95	0.18	COSV52661580
PIK3CA E545K	4.26	0.43	COSV55873239
PIK3CA H1047R	4.21	0.40	COSV55873195
EGFR T790M	2.55	0.25	COSV51765492
EGFR C797S	2.55	0.25	COSV51766493
EGFR D770_N771insG	2.55	0.25	COSV51769298
EGFR L858R	2.65	0.57	COSV51765161
BRAF V600E	4.22	1.40	COSV56056643
NRAS Q61R	3.21	0.30	COSV54736340
PTEN R130G	5.71	1.10	COSV64288384
TP53 R175H	2.15	0.38	COSV52661038
IDH1 R132H	4.24	0.37	COSV61615239
CTNNB1 T41A	2.09	0.38	COSV62687862
CTNNB1 S33C	2.09	0.38	COSV62687839
FGFR3 S249C	1.72	1.04	COSV53390026
APC Q1429*	3.75	0.30	COSV57322632
APC R1450*	3.75	0.30	COSV57321313
EGFR E746-A750del v1	2.72	0.16	COSV51765119
EGFR E746-A750del v2	3.96	0.46	COSV51765066
KIT D816V	3.33	0.40	COSV55386424