

Batch Certificate For Research Use Only

PRODUCT INFORMATION AND QUALITY CONTROL

NAME OF PRODUCT Ashkenazim son cfDNA (human) AF: 0% in Plasma

DESCRIPTION Human proteins in common plasma concentrations, electrolytes,

EDTA and cfDNA / ctDNA in common plasma concentrations

CATALOG NUMBER SID-000002

BATCH NUMBER 00040

MANUFACTURING

• Manufactured and sealed in class 2 safety cabinet

CONDITIONS • Bottled with qualified dispenser

At room temperature

PACKAGE SIZE AND

• 2D barcoded tube with screw cap

TYPE • Material: Polypropylen (PP)

DATE OF MANUFACTURE | 04.02.2020

EXPIRY DATE 03.02.2022

CONCENTRATION 80 ng/ml (dsDNA)

QUANTITY ≥ 400 ng (dsDNA)

NOMINAL VOLUME $17 \mu l$ (in 5 ml Plasma); (420 ng)

MUTATION AKT1 p.E17K (COSM33765*, COSV62571334*, substitution, c.49G>A, Exon 2)

BRAF p.V600E (COSM476*, COSV56056643*, substitution, c.1799T>A, Exon 15)
ERBB2 p.E770_A771insAYVM (new: p.Y772_A775dup) (COSM20959*/ COSM404915*,

COSV54062409*, insertion, c.2313_2324dup/ c.2310_2311ins12, Exon 19)

KRAS p.G12D (COSM521*, COSV55497369*, substitution, c.35G>A, Exon 1)

KRAS p.Q61K (COSM549*, COSV55502066*, substitution, c.181C>A, Exon 2)

KRAS p.A146T (COSM19404*, COSV55501778*, substitution, c.436G>A, Exon 3)

PIK3CA p.H1047R (COSM775*, COSV55873195*, substitution, c.3140A>G, Exon 20)

PIK3CA p.E545K (COSM763*, COSV55873239* substitution, c.1633G>A, Exon 9)

* GRCh38 COSMIC v90

ALLELIC FREQUENCY 0%

QUALITY

DNA quantity metrologically traceable to internationally certified

reference material¹

The copy number values are metrologically traceable to the natural units count 1 and ratio 1 and International System of Units

(SI) derived units of volume.

STORAGE CONDITIONS | + 2-8 °C

1 ERM AD442K

Phone: +49 (0) 381 377 182 01

Net: www.sens-id.com SensID GmbH, Schillingallee 68, 18057 Rostock, Germany Mail: support@sens-id.com



					Page 2/3	
MANUFACTURING AND	SensID GmbH				•	
QUALITY CONTROL	 Schillingallee 68, 18057 Rostock, Germany					
SITES			,			
		1 =		T .		
TEST METHOD AND	Quality Control	Test Method			Acceptance	
ACCEPTANCE CRITERIA			criteria			
		Fragment Length Analysis ²		peak size 167 bp ±		
	Fragmentation	Agilent High Sensitivity DNA Kit		10%		
		(Agilent Technologies)		(151 bp - 181 bp)		
		Total DNA measurement		Total DNA:		
		Spectrophotometry		n.a. ⁴		
		ssDNA [ng/µl] = (A260-A320)*38 ^{2,3}				
	Quantification	dsDNA measurement				
				dsDNA:		
		Qubit		n.a.4		
		dsDNA BR Assay Kit (Invit	y Kit (Invitroaen) ²			
		dPCR Analysis ²		AF 0.00%		
	Allelic Frequency	using BioRad QX200™ System				
		using blokdd QAZOO Sys	(≤0.03%)			
RESULTS OF ANALYSIS						
RESULTS OF ANALTSIS		Result 175 bp			PASS/FAIL	
	Fragmentation				PASS	
		37.8 ng/µl (total DNA)				
	Quantity	24.7 ng/µl (dsDNA)		PASS		
		Mutation	AF in %	([PASS/FAIL	
		AKT1 E17K	0.03	, '	PASS	
		BRAF V600E	0.00		PASS	
		PIK3CA H1047R	0.02		PASS	
	Allelic	PIK3CA E545K ERBB2	0.02		PASS	
	Frequency	E770_A771insAYVM	0.00		PASS	
	rrequeriey	(Y772_A775dup)				
		KRAS G12D	0.03		PASS	
		KRAS Q61K	0.00		PASS	
		KRAS A146T	0.01		PASS	

Net: <u>www.sens-id.com</u> SensID GmbH, Schillingallee 68, 18057 Rostock, Germany

² Measured before spiking in
³ Protocol NK603 – Community Reference Laboratory for GM Food and Feed
⁴not applicable

Phone: +49 (0) 381 377 182 01

Net: www.sens-id



COMMENTS/REMARKS

Additional information:

Copy numbers (CN) of the respective measurements

Mutation	CN wt ⁵ /ml	CN mut ⁶ /ml
AKT1 E17K	10968	4
BRAF V600E	8409	0
PIK3CA H1047R	17125	5
PIK3CA E545K	11737	3
ERBB2 E770_A771insAYVM (Y772_A775dup)	13411	0
KRAS G12D	11940	4
KRAS Q61K	14475	0
KRAS A146T	14002	1

Table 1 indicates the values of the QC assays performed by SensID GmbH with an DNA input of ~20 ng. The value for the respective mutation results from the mean value of three measured replicates (CN values are rounded) before spiking in. CN concentration values per microliter (μ I), are based on droplet digital (ddPCR) assay counts dilution factors, and droplet volume measurements. The detection of the amount of CNs may vary depending on the assay used. Therefore, due to assay properties, there may be deviations in the observed number of copies and allele frequencies compared to the values given here.

Name and position/title of Person authorising the batch release:

Mr. Björn Nowack, Managing Director

Date of batch release: 13.02.2020

Signature batch release: Björn Nowack

This document was created electronically and is valid without a signature.

⁵ Wild Type

⁶ Mutation

Phone: +49 (0) 381 377 182 01