



page1of3

Batch Certificate For Research Use Only

PRODUCT INFORMATION	AND QUALITY CONTROL			
NAME OF PRODUCT	5-Gene-Multiplex 5% AF cfDNA AKT1/BRAF/ERBB2/KRAS/PIK3CA			
	in Plasma			
DESCRIPTION	5-Gene-Multiplex 5% AF cfDNA AKT1/BRAF/ERBB2/KRAS/PIK3CA			
	in highly characterized human DNA from cell lines.			
	Human proteins in common plasma concentrations, electrolytes,			
	EDTA, cfDNA / ctDNA in common plasma concentrations.			
CATALOG NUMBER	SID-000090			
BATCH NUMBER	00127			
MANUFACTURING	Manufactured and sealed in class 2 safety cabinet			
CONDITIONS	Bottled with qualified liquid handling workstation			
	At room temperature			
PACKAGE SIZE	2D barcoded tube with screw cap			
PACKAGE TYPE	Material: Polypropylen (PP)			
DATE OF MANUFACTURE	11.11.2020			
EXPIRY DATE	10.11.2022			
TARGET	80 ng/ml (dsDNA)			
CONCENTRATION				
TARGET QUANTITY	400 ng (dsDNA)			
NOMINAL VOLUME	5 ml			
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*, COSV54062409*,			
	insertion, c.2313_2324dup, 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 (COSM7/3*, COSV55873239* substitution, c.1633G>A, Exon 9)			
	* GRCh38 COSMIC V91			
ALLELE FREQUENCY	5.0%			
QUALITY	DNA quantity metrologically traceable to internationally certified			
	reference material ¹			





	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				
MANUFACTURING AND	SensID GmbH				
QUALITY CONTROL	Schillingallee 68, 18057 Rostock, Germany				
	Schliningdhee 08, 18037 Rostock, Gerhidhy				
SITES					
TEST METHOD AND	Quality Control	Test Method Acceptance		ceptance	
ACCEPTANCE CRITERIA		Test Method		Criteria	
		Fragment Length Analysis ²		peak size 167 bp	
	Fragmentation	Agilent High Sensitivity DNA	Kit ± 10%	± 10%	
		(Agilent Technologies)		(151 bp – 181 bp)	
		dsDNA measurement: Qubit ²	2	80 ng/ml ± 10%	
	Quantification	dsDNA BR Assay Kit (Invitrog	en) 80 ng		
	Guantineation	dsDNA amount per ml plasma		(72-88 ng/ml)	
	Allele	ddPCR Analysis ² AF 5% ±30%		% ±30%	
	Frequency	using BioRad QX200™ System (3.5-6.5%)		6.5%)	
			•		
RESULTS OF ANALYSIS		Result		PASS/FAIL	
	Fragmentation	172 bp		PASS	
	Quantity	80 ng/ml plasma P.		PASS	
	Allele Frequency	Mutation	AF in %	PASS/FAIL	
		AKT1 E17K	5.9	PASS	
		BRAF V600E ERBB2 E770_A771insAYVM	5.0	PASS	
		(new: Y772_A775dup)	4.5	PASS	
		KRAS G12D	4.6	PASS	
		KRAS Q61K	5.4	PASS	
		KRAS A146T	4.7	PASS	
		PIK3CA H1047R	4.6	PASS	
		PIK3CA E545K	5.3	PASS	





page 3 of 3

COMMENTS/REMARKS

ADDITIONAL INFORMATION:

Copy numbers (CN) of the respective measurements

Mutation	CN wt ³ /ml	CN mut ⁴ /ml
AKT1 E17K	8388	529
BRAF V600E	7510	392
ERBB2 E770_A771insAYVM (new: Y772_A775dup)	12204	580
KRAS G12D	10422	508
KRAS Q61K	12398	709
KRAS A146T	14962	738
PIK3CA H1047R	16117	785
PIK3CA E545K	10742	601

Table 1 indicates the values of the QC assays performed by SensID GmbH with a DNA input of ~20 ng. The value for the respective mutation results from the mean value of three measured replicates (CN values are rounded). CN concentration values per milliliter (ml) plasma 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:	16.12.2020
Dute of Dutch lefeuse.	10.12.2020

Signature batch release: Björn Nowack

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

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