



Batch Certificate For Research Use Only

PRODUCT INFORMATION AND QUALITY CONTROL				
NAME OF PRODUCT	5-Gene-Multiplex 0.1% AF cfDNA AKT1/BRAF/ERBB2/KRAS/PIK3CA			
	in Plasma			
DESCRIPTION	5-Gene-Multiplex 0.1% 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-000088			
BATCH NUMBER	00129			
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	10.11.2021			
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 (COSM763*, COSV55873239* substitution, c.1633G>A, Exon 9) *GRCh38 COSMIC v91			
ALLELE FREQUENCY	0.1%			
QUALITY	DNA quantity metrologically traceable to internationally certified reference material ¹			

¹ ERM_AD442K **Phone**: +49 (0) 381 377 182 01





STORAGE CONDITIONS	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. + 2 - 8 °C				
MANUFACTURING AND	SensID GmbH				
QUALITY CONTROL	Schillingallee 68, 18057 Rostock, Germany				
SITES					
TEST METHOD AND	Acceptance				
ACCEPTANCE CRITERIA	Quality Control	Test Method	Criteria		
		Fragment Length Analysis ²	peak	peak size 167 bp	
	Fragmentation	Agilent High Sensitivity DNA Kit		± 10%	
		(Agilent Technologies)	(151 b	(151 bp - 181 bp)	
		dsDNA measurement: Qubit	90 n	80 ng/ml ± 10% (72-88 ng/ml)	
	Quantification	dsDNA BR Assay Kit (Invitrog	en) l		
		dsDNA amount per ml plasm	a (72-8		
	Allele	ddPCR Analysis	lysis AF 0.1% ±		
Frequency		using BioRad QX200™ System (0.04-0.16%)		-0.16%)	
RESULTS OF ANALYSIS		Result		PASS/FAIL	
	Fragmentation	n 176 bp		PASS	
	Quantity	80 ng/ml plasma PAS		PASS	
		Mutation AKT1 E17K	AF in % 0.10	PASS/FAIL PASS	
		BRAF V600E	0.10	PASS	
	Allele	ERBB2 E770_A771insAYVM (new: Y772_A775dup)	0.13	PASS	
	Frequency	KRAS G12D	0.08	PASS	
		KRAS Q61K	0.07	PASS	
		KRAS A146T PIK3CA H1047R	0.09 0.14	PASS PASS	
		PIK3CA E545K	0.14	PASS	

² Measured before filling in product tube **Phone**: +49 (0) 381 377 182 01

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





COMMENTS/REMARKS

ADDITIONAL INFORMATION:

Copy numbers (CN) of the respective measurements

Mutation	CN wt ³ /ml	CN mut ⁴ /ml	
AKT1 E17K	8030	8	
BRAF V600E	7173	8	
ERBB2 E770_A771insAYVM (new: Y772_A775dup)	11853	16	
KRAS G12D	9880	8	
KRAS Q61K	11894	8	
KRAS A146T	13600	12	
PIK3CA H1047R	15190	21	
PIK3CA E545K	10139	16	

Table 1 indicates the values of the QC assays performed by SensID GmbH with a DNA input of ~100 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

Signature batch release: Björn Nowack

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

³ Wild Type

⁴ Mutation

Phone: +49 (0) 381 377 182 01