EN ISO13485:2016 certified manufacturer

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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		
DESCRIPTION	5-Gene-Multiplex 5% AF cfDNA AKT1/BRAF/ERBB2/KRAS/PIK3CA is		
	highly characterized human DNA from cell lines.		
CATALOG NUMBER	SID-000094		
BATCH NUMBER	00125		
MANUFACTURING	Manufactured and sealed in class 2 safety cabinet		
CONDITIONS	At room temperature		
PACKAGE SIZE	2D barcoded tube with screw cap		
PACKAGE TYPE	Material: Polypropylen (PP)		
DATE OF MANUFACTURE	10.11.2020		
EXPIRY DATE	09.11.2022		
TARGET	20 ng/μl (dsDNA)		
CONCENTRATION			
TARGET QUANTITY	400 ng (dsDNA)		
NOMINAL VOLUME	25 µl		
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	5.0%		
QUALITY STORAGE CONDITIONS	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		

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

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MANUFACTURING AND	SensID GmbH			1 agc 2/ 5	
QUALITY CONTROL	Schillingallee 68,	Schillingallee 68, 18057 Rostock, Germany			
SITES		·			
TEST METHOD AND ACCEPTANCE CRITERIA	Quality Control	Test Method		Acceptance Criteria	
		Fragment Length Analysis	'	size 167 bp	
	Fragmentation	Agilent High Sensitivity DNA	Kit	± 10%	
		(Agilent Technologies)	(151 k	(151 bp - 181 bp)	
	Quantification	Total DNA measurement:	Toto	I DNA:	
		Spectrophotometry	n.a. ⁴	n.a. ⁴	
		ssDNA [ng/µl] = (A260- A320)*38 ² , ³			
		dsDNA measurement: Qubit		dsDNA:	
		dsDNA BR Assay Kit (Invitrogen)		17.5 – 22.5 ng/µl	
	Allele	ddPCR Analysis		AF 5% ±30%	
	Frequency	using BioRad QX200™ System		(3.5-6.5%)	
RESULTS OF ANALYSIS		Result		PASS/FAIL	
	Fragmentation	177 bp		PASS	
	Quantity	35.9 ng/µl (total DNA)			
		20.5 ng/μl (dsDNA)		PASS	
		Mutation	AF in %	PASS/FAIL	
		AKT1 E17K BRAF V600E	5.1 4.7	PASS PASS	
		PIK3CA H1047R	4.8	PASS	
	Allele	PIK3CA E545K	5.1	PASS	
	Frequency	ERBB2 E770_A771insAYVM (new: Y772_A775dup)	4.7	PASS	
		KRAS G12D	4.6	PASS	
		KRAS Q61K	5.2	PASS	
		KRAS A146T	4.9	PASS	

 ² Protocol NK603 – Community Reference Laboratory for GM Food and Feed
 ³ Measured before filling in product tube
 ⁴ Not 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 wt⁵/μl	CN mut ⁶ /μl
AKT1 E17K	2265	121
BRAF V600E	1954	97
PIK3CA H1047R	4268	217
PIK3CA E545K	2998	160
ERBB2 E770_A771insAYVM (new: Y772_A775dup)	3350	166
KRAS G12D	2916	141
KRAS Q61K	3336	184
KRAS A146T	3929	202

Table 1 indicates the values of the QC assays performed by SensID GmbH with a DNA input of ~40 ng. The value for the respective mutation results from the mean value of five measured replicates (CN values are rounded). CN concentration values per microliter (µl) 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: 30.11.2020

Signature batch release: Björn Nowack

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

⁵ Wild Type

⁶ Mutation

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