

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

DESCRIPTION

5-Gene-Multiplex 0.1% AF cfDNA AKT1/BRAF/ERBB2/KRAS/PIK3CA

is highly characterized human DNA from cell lines.

CATALOG NUMBER

SID-000092

BATCH NUMBER

00095

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

01.09.2020

EXPIRY DATE

31.08.2022 20 ng/µl (dsDNA)

CONCENTRATION

NOMINAL VOLUME

400 ng (dsDNA)

QUANTITY

25 μl; (548 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*, 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 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

MANUFACTURING AND

SensID GmbH

QUALITY CONTROL

Schillingallee 68, 18057 Rostock, Germany

SITES

¹ERM AD442K

Phone: +49 (0) 381 377 182 01

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TEST METHOD AND	Quality Control	Test Method Acceptance		ptance	
ACCEPTANCE CRITERIA		criteria		ia	
		Fragment Length Analysis peak size 1		size 167 bp ±	
	Fragmentation	Agilent High Sensitivity DNA Kit 10		0%	
		(Agilent Technologies)		(151 bp - 181 bp)	
		Total DNA measurement:	Total	DNA:	
		Spectrophotometry		n.a. ⁴	
	Quantification	ssDNA [ng/µl] = (A260-A320)*38	2,3		
		dsDNA measurement: Qubit		dsDNA:	
		dsDNA BR Assay Kit (Invitrogen)		17.5 - 22.5 ng/μl	
	AII I E	ddPCR Analysis	AF 0.1	% ±60%	
	Allele Frequency	using BioRad QX200™ System		(0.04-0.16%)	
		I	į		
RESULTS OF ANALYSIS		Result PASS/FAIL		DASS/FAII	
	Fragmentation	174 bp PASS		PASS	
	Quantity	28.3 ng/µl (total DNA)			
		21.9 ng/μl (dsDNA)		PASS	
		Mutation	AF in %	PASS/FAIL	
		AKT1 E17K	0.10	PASS	
		BRAF V600E	0.11	PASS	
	Allele	PIK3CA H1047R PIK3CA E545K	0.08	PASS PASS	
		ERBB2 E770_A771insAYVM			
	Frequency	(new: Y772_A775dup)	0.10	PASS	
		KRAS G12D	0.08	PASS	
		KRAS Q61K	0.07	PASS	
		KRAS A146T	0.09	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-ic



COMMENTS/REMARKS

ADDITIONAL INFORMATION:

Copy numbers (CN) of the respective measurements

Mutation	CN wt⁵/μl	CN mut ⁶ /μl
AKT1 E17K	1956	2
BRAF V600E	1775	2
PIK3CA H1047R	3787	3
PIK3CA E545K	2398	2
ERBB2 E770_A771insAYVM (new: Y772_A775dup)	2885	3
KRAS G12D	2451	2
KRAS Q61K	2987	2
KRAS A146T	3341	3

Table 1 indicates the values of the QC assays performed by SensID GmbH with a DNA input of ~150 ng. The value for the respective mutation results from the mean value of three measured repetitions of QC Pool of 10 QC samples (CN values are rounded). 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: 04.09.2020

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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