

## 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** 

00021

**MANUFACTURING** 

Manufactured and sealed in class 2 safety cabinet

**CONDITIONS** 

At room temperature

PACKAGE SIZE AND

• 2D barcoded tube with screw cap

**TYPE** 

Material: Polypropylen (PP)

DATE OF MANUFACTURE

EXPIRY DATE

26.02.2020 25.02.2022

CONCENTRATION

20 ng/µl (dsDNA)

QUANTITY

400 ng (dsDNA)

NOMINAL VOLUME

25 µl; (553 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

ALLELE FREQUENCY

5%

QUALITY

DNA quantity metrologically traceable to internationally certified

reference material<sup>1</sup>

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** 

<sup>1</sup>ERM AD442K

Phone: +49 (0) 381 377 182 01

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



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TEST METHOD AND	Quality Control	Test Method		Acceptance		
ACCEPTANCE CRITERIA				criteria		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Fragment Length Analysis Agilent High Sensitivity DNA Kit (Agilent Technologies)		peak size 167 bp ±		
	Fragmentation			10%		
				(151 bp - 181 bp)		
		Total DNA measurement:  Spectrophotometry		Total DNA:		
				n.a. <sup>4</sup>		
	Quantification	ssDNA [ng/ $\mu$ l] = (A260-A3	320)*38²,3			
		dsDNA measurement: Qubit		dsDNA: 17.5 – 22.5 ng/μl		
		dsDNA BR Assay Kit (Invit	sDNA BR Assay Kit (Invitrogen)			
		dPCR Analysis	 ′sis		AF 5% ±30%	
	Allele Frequency	using BioRad QX200™ System		(3.5-6.5%)		
		ļ				
RESULTS OF ANALYSIS		I D. Iv			L D 4 0 0 / E 4 11	
		Result			PASS/FAIL	
	Fragmentation	178 bp		PASS		
		24.8 ng/µl (total DNA				
	Quantity	22.1 ng/µl (dsDNA)	PASS			
		Mutation AKT1 E17K	AF in %	6 P.	ASS/FAIL PASS	
		BRAF V600E	6.0 5.4		PASS	
		PIK3CA H1047R	5.0		PASS	
	Allele	PIK3CA E545K	5.9		PASS	
	Frequency	ERBB2 E770 A771insAYVM	5.3		PASS	
	rrequeries	(Y772_A775dup)	5.5			
		KRAS G12D	5.1		PASS	
		KRAS Q61K	7.1		FAIL	
		KRAS A146T	5.7		PASS	
COMMENTS/REMARKS	Additional inform	nation:				
	Convinumbers (C)	N) of the respective meas	surements			
		values of the QC assays perform			iith an DN∆ innut	
		for the respective mutation r	•			
		(CN values are rounded) (CN co				

<sup>3</sup>Measured before filling in product tube <sup>4</sup>not applicable **Phone**: +49 (0) 381 377 182 01

measured replicates (CN values are rounded). CN concentration values per microliter (µI), 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.

 $<sup>^{\</sup>rm 2}$  Protocol NK603 — Community Reference Laboratory for GM Food and Feed



Therefore, due to assay properties, there may be deviations in the observed number of copies and allele frequencies compared to the values given here.

Mutation	CN wt⁵/μl	CN mut <sup>6</sup> /μl
AKT1 E17K	1937	124
BRAF V600E	1951	112
PIK3CA H1047R	4554	238
PIK3CA E545K	3101	196
ERBB2 E770_A771insAYVM (Y772_A775dup)	3894	216
KRAS G12D	2863	154
KRAS Q61K	3485	267
KRAS A146T	4428	266

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

Mr. Björn Nowack, Managing Director

Date of batch release: 28.02.2020

Signature batch release: Björn Nowack

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

<sup>6</sup> Mutation

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