

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

00019

MANUFACTURING

Manufactured and sealed in class 2 safety cabinet

CONDITIONS

Bottled with qualified liquid handling workstation

At room temperature

PACKAGE SIZE AND

• 2D barcoded tube with screw cap

TYPE

Material: Polypropylen (PP)

DATE OF MANUFACTURE | 02.09.2019

EXPIRY DATE

01.09.2021

CONCENTRATION

20 ng/µl (ds DNA)

QUANTITY

400 ng (ds DNA)

NOMINAL VOLUME

21.5 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*/ 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

0.1%

QUALITY

DNA quantity metrological 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

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



MANUFACTURING AND	SensID GmbH					
QUALITY CONTROL	Schillingallee 68,	 Schillingallee 68, 18057 Rostock, Germany				
SITES						
TEST METHOD AND	Quality Control	Test Method Acceptance				
ACCEPTANCE CRITERIA			criteria			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Fragment Length Analysis	peak size 167 bp			
	Fragmentation	Agilent High Sensitivity DN	± 10%			
		(Agilent Technologies)	(151 bp - 181 bp)			
		Total DNA measurement:	ssDNA:			
		Spectrophotometry			n.a. ³	
	Quantification	ssDNA [ng/µl] = (A260-A320)*38 ²				
		dsDNA measurement: Qubit		dsDNA:		
	dsDNA BR Assay Kit (Invitroge		ogen)	18.5 - 22.5 ng/μl		
	Allele	dPCR Analysis	Analysis		AF 0.1% ±60%	
	Frequency	using BioRad QX200™ Sys)™ System		(0.04-0.16%)	
RESULTS OF ANALYSIS		Result			PASS/FAIL	
	Fragmentation	181 bp		PASS		
	- Tragmentation	33.2 ng/µl (total DNA)	17.00	1 400		
	Quantity	19.5 ng/μl (dsDNA)	PASS			
	Allele Frequency	Mutation		in %		
		AKT1 E17K BRAF V600E	0.0			
		ERBB2 E770 A771insAYVM	0.0	09		
		(Y772_A775dup)			PASS	
		KRAS G12D KRAS Q61K	0.0			
		KRAS A146T	0.	12		
		PIK3CA H1047R PIK3CA E545K	0.0	10		
COMMENTS/REMARKS	Additional inform		I	<u></u>		
	Copy numbers (CN) of the respective measurements					
	Table 1 indicates the values of the QC assays performed by SensID GmbH with an DNA input of ~80 ng. The value for the respective mutation results from the mean value of three measured repetitions of QC Pool of 7 QC samples (CN values are rounded). CN concentration					
values per microliter (μ I), are based on droplet digital (ddPCR) assay counts dilution						

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and droplet volume measurements. The detection of the amount of CNs may vary

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 $^{^{2}}$ Protocol NK603 — Community Reference Laboratory for GM Food and Feed ³not applicable **Phone:** +49 (0) 381 377 182 01



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.

Mutation	CN wt⁴/µl	CN mut⁵/µl
AKT1 E17K	2348	3
BRAF V600E	1999	1
ERBB2 E770_A771insAYVM (Y772_A775dup)	3177	3
KRAS G12D	2742	1
KRAS Q61K	3329	3
KRAS A146T	3957	4
PIK3CA H1047R	4489	2
PIK3CA E545K	2649	2

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

Mr. Björn Nowack, Managing Director

Date of batch release: 20.09.2019

Signature batch release: Björn Nowack

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

⁵ Mutation

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