

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 00017

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 20.0 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 5%

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

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MANUFACTURING AND	SensID GmbH				
QUALITY CONTROL	Schillingallee 68, 18057 Rostock, Germany				
SITES		·			
TEST METHOD AND	Quality Control	ntrol Test Method Acceptance			
ACCEPTANCE CRITERIA				criteria	
ACCLITATION CITTERIA		Fragment Length Analysis		peak size 167 bp	
	Fragmentation	Agilent High Sensitivity DNA	·	± 10%	
		(Agilent Techn.)		(151 bp - 181 bp)	
		Total DNA measurement:		ssDNA:	
		Spectrophotometry		n.a. ³	
	Quantification	$ssDNA [ng/\mu l] = (A260-A320)*38$			
	gaaritiioation	dsDNA measurement: Qubit		dsDNA:	
		dsDNA BR Assay Kit (Invitroge		– 22.5 ng/μl	
	Allele	dPCR Analysis		5% ±30%	
	Frequency	using BioRad QX200™ System	m (3.5-	(3.5-6.5%)	
RESULTS OF ANALYSIS		<u> </u>		1	
		Result		PASS/FAIL	
	Fragmentation	180 bp		PASS	
	Quantity	35.15 ng/µl (total DNA)		PASS	
	Quantity	21.80 ng/μl (dsDNA)			
		Mutation	AF in %		
		AKT1 E17K BRAF V600E	6.5 5.2		
	Allele	ERBB2 E770_A771insAYVM	4.9		
	Frequency	(Y772_A775dup) KRAS G12D	4.9	- PASS	
		KRAS Q61K	5.7]	
		KRAS A146T PIK3CA H1047R	5.5 6.0		
		PIK3CA E545K	6.5		
COMMENTS/REMARKS	Additional information:				
	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 ~40 ng. The value for the respective mutation results from the mean value of three measured batch products (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				

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

and allele frequencies compared to the values given here.



Mutation	CN wt⁴/μl	CN mut⁵/μl
AKT1 E17K	2605	180
BRAF V600E	2182	120
ERBB2 E770_A771insAYVM (Y772_A775dup)	3545	184
KRAS G12D	3055	159
KRAS Q61K	3547	215
KRAS A146T	4102	239
PIK3CA H1047R	4409	282
PIK3CA E545K	3245	226

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.