

Batch Certificate

For Research Use Only

PRODUCT INFORMATION AND QUALITY CONTROL

NAME OF PRODUCT EGFR-Multiplex 5% AF cfDNA

DESCRIPTION | SensID cfDNA (human) is highly characterized human DNA from

cell lines.

CATALOG NUMBER | SID-000019

BATCH NUMBER 00037

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 | 08.01.2020

EXPIRY DATE 07.01.2022

CONCENTRATION 20 ng/µl (ds DNA)

QUANTITY 400 ng (ds DNA)

NOMINAL VOLUME 20 μl

MUTATION EGFR

p.G719S (COSM6252*, COSV51767289*, substitution, c.2155G>A, Exon 18)

p.E746_A750delELREA (COSM6225*, COSV51765066*, deletion, c.2236_2250del15, Exon

19)

p.S752_I759delSPKANKEI (COSM6256*, COSV51774879*, deletion, c.2254_2277del24,

Exon 19)

p.S768I (COSM6241*, COSV51768106* substitution, c.2303G>T, Exon 20)

p.V769_D770insASV (COSM20884*, COSV51850427* Insertion,

c.2303 2304insTGTGGCCAG,

Exon 20)

p.T790M (COSM6240*, COSV51765492*, substitution, c.2369C>T, Exon 20) p.L858R (COSM6224*, COSV51765161*, substitution, c.2573T>G, Exon 21) p.L861Q (COSM6213*, COSV51766344*, substitution, c.2582T>A, Exon 21)

* 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

Mail: support@sens-id.com

10%

n.a.4

dsDNA:

Acceptance criteria

peak size 167 bp ±

(151 bp - 181 bp)

 $17.5 - 22.5 \, \text{ng/µl}$

AF 5% ±30%

(3.5-6.5%)

Total DNA:



MANUFACTURING AND	SensID GmbH		
QUALITY CONTROL	Schillingallee 68, 18057 Rostock, Germany		
SITES			
TEST METHOD AND	Quality Control	Test Method	
ACCEPTANCE CRITERIA			
		Fragment Length Analysis	
	Fragmentation	Agilent High Sensitivity DNA Kit	
		(Agilent Technologies)	

Quantification

Allele Frequency

RESUL ⁻	LC CE	4 1 1 4	LVCIC
KEOUL	ISUE	AINA	LIOIO

	Result		PASS/FAIL
Fragmentation	179 bp		PASS
Quantity	29.6 ng/µl (total DNA) 20.3 ng/µl (dsDNA)		PASS
Allele Frequency	Mutation L858R L861Q S768I E746_A750delELREA T790M G719S V769 D770insASV	AF in % 4.4 5.3 5.3 5.3 3.9 4.0 4.6 4.6	PASS

Total DNA measurement:

 $ssDNA [ng/\mu I] = (A260-A320)*38^{2,3}$

dsDNA measurement: Qubit

dsDNA BR Assay Kit (Invitrogen)

using BioRad QX200™ System

Spectrophotometry

dPCR Analysis

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 ~20 ng. The value for the respective mutation results from the mean value of five measured 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.

Mutation	CN wt⁵/μl	CN mut ⁶ /μl
L858R	4631	213

⁶ Mutation

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² Measured before spiking in

³ Protocol NK603 – Community Reference Laboratory for GM Food and Feed

⁴ not applicable

⁵ Wild Type



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L861Q	5968	332
S768I	4555	253
E746_A750delELREA	4444	180
T790M	4671	195
G719S	4634	225
V769_D770insASV	3683	181
S752_I759delSPANKEI	2509	137

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

Mr. Björn Nowack

Date of batch release: 13.01.2020

Signature batch release: Björn Nowack

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