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Release Date Version / Index Print Date 03.07.2024 2 1 05.07.2024

## **BATCH CERTIFICATE**

For Research Use Only

PRODUCT INFORMATION AND (	QUALITY CONTROL				
NAME OF PRODUCT	ESR1 Reference Vial 4 1% AF cfDNA				
DESCRIPTION	ESR1 Reference Vial 4 1% AF cfDNA is part of ESR1 Reference Set 1% A cfDNA (SID-000144). It consists of highly characterized human DNA from cell line containing ESR1 p.E380Q, ESR1 p.S463P and ESR1 p.Y537N.				
CATALOG NUMBER	SID-000148				
BATCH NUMBER	00734				
MANUFACTURING CONDITIONS	<ul><li>Manufactured and sealed in class 2 safety cabinet</li><li>Manufactured according to DIN EN ISO 13485:2016</li></ul>				
PACKAGE SIZE AND TYPE	<ul><li>2D barcoded tube with screw cap</li><li>Material: Polypropylen (PP)</li></ul>				
DATE OF MANUFACTURE	21.06.2024				
EXPIRY DATE	20.06.2026				
TARGET CONCENTRATION	10 ng/µl (dsDNA)				
TARGET QUANTITY	250 ng (dsDNA)				
NOMINAL VOLUME	25 μΙ				
MUTATION * GRCh38 COSMIC v99	ESR1 p.E380Q (COSV52782264*, substitution, c.1138G>C, Exon 5)				
	ESR1 p.S463P (COSV52784970*, substitution, c.1387T>C, Exon 7)				
	ESR1 p.Y537N (COSV52784978*, substitution, c.1609T>A, Exon 8)				
ALLELE FREQUENCY	1.00%				
QUALITY	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 SITE	SensID GmbH Schillingallee 68, 18057 Rostock, Germany				





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TEST METHOD AND ACCEPTANCE CRITERIA	Quality control	Test method			Acceptance criteria		
	Fragmentation	Fragment length analysis: Agilent D5000 ScreenTape System (Agilent Technologies)			Peak size: 167 bp ± 15% (142 bp – 192 bp)		
	Quantification	dsDNA measurement: Qubit™ 1X dsDNA Assay-Kit (Invitrogen)			dsDNA: 10.0 ng/μl ± 15% (8.5 – 11.5 ng/μl)		
	Allele frequency	Allele frequency analysis: dPCR (QIAGEN® QIAcuity Four)			AF 1.00% ± 40% (0.60 – 1.40%)		
RESULTS OF ANALYSIS	Quality control	Result		PASS / FAIL			
	Fragmentation	158 bp		PASS			
	Quantification	10.8 ng/μl (dsDNA)		7)	PASS		
		Mutation	AF in %		PASS / FAIL		
	Allele frequency	ESR1 p.E380Q	R1 p.E380Q 1.0		PASS		
		ESR1 p.S463P		1.35	PASS		
		ESR1 p.Y537N		1.10		PASS	
COMMENTS / REMARKS	Additional information: Measurement of copy number						
MEASUREMENT OF COPY NUMBER	Mutation		CN wt/ng			CN mut/ng	
	ESR1 p.E380Q		319.18			3.40	
	ESR1 p.S463P		379.51			5.18	
	ESR1 p.Y537N		404.40			4.48	
	wt: wildtype; mut: mutation						
	The table above indicates the values of the QC assays performed by SensID GmbH with a DNA input of 1 ng. The value for the respective mutation results from the mean value of QC samples according to ISO 2859-1:2014-08 (CN values are rounded). CN concentration values per nanogram (ng) are based on digital (dPCR) 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:

Björn Nowack, Managing Director

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Date of batch release: 02.07.2024

Signature batch release: Björn Nowack

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