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BATCH CERTIFICATE

For Research Use Only

PRODUCT INFORMATION AND	QUALITY CONTROL				
NAME OF PRODUCT	ESR1 Reference Vial 3 1% AF cfDNA				
DESCRIPTION	ESR1 Reference Vial 3 1% AF cfDNA is part of ESR1 Reference Set 1% AF cfDNA (SID-000144). It consists of highly characterized human DNA from cell line containing ESR1 p.L536R and ESR1 p.D538G.				
CATALOG NUMBER	SID-000147				
BATCH NUMBER	00673				
MANUFACTURING CONDITIONS	Manufactured und sealed in class 2 safety cabinetManufactured according to DIN EN ISO 13485:2016				
PACKAGE SIZE AND TYPE	2D barcoded tube with screw cap Material: Polypropylen (PP)				
DATE OF MANUFACTURE	28.02.2024				
EXPIRY DATE	27.02.2026				
TARGET CONCENTRATION	10 ng/μl (dsDNA)				
TARGET QUANTITY	250 ng (dsDNA)				
NOMINAL VOLUME	25 μΙ				
MUTATION * GRCh38 COSMIC v99	ESR1 p.L536R (COSV52787207*, substitution, c.1607T>G, Exon 8) ESR1 p.D538G (COSV52781024*, substitution, c.1613A>G, Exon 8)				
ALLELE FREQUENCY	1.00%				
QUALITY	DNA quantity metrologically traceable to internationally certified reference material (ERM_AD442K). 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	Total DNA measurement (ssDNA): Spectrophotometry**		Total DNA: not applicable			
	Quantification	dsDNA measurement: Qubit dsDNA BR Assay Kit (Invitrogen)		dsDNA: 10.0 ng/μl ± 15% (8.5 – 11.5 ng/μl)			
	**Protocol NK603 - Co	**Protocol NK603 – Community Reference Laboratory for GM Food and Feed					
	Allele frequency	Allele frequency analysis: ddPCR (BioRad QX200™)		AF 1.00% ± 40% (0.60 – 1.40%)			
RESULTS OF ANALYSIS	Quality control	Result		PASS / FAIL			
	Fragmentation	169 bp		PASS			
	Quantification	25.4 ng/μl (total DNA) 9.8 ng/μl (dsDNA)		PASS			
	A II - I -	Mutation	AF in %		PASS / FAIL		
	Allele frequency	ESR1 p.L536R 1.00		PASS			
	riequeriey	ESR1 p.D538G	0.82		PASS		
COMMENTS / REMARKS	Additional infor	Additional information: Measurement of copy number					
	Mutation	Mutation			CN mut/ng		
	ESR1 p.L536R	ESR1 p.L536R			3.53		
	ESR1 p.D538G	ESR1 p.D538G			2.99		
	wt: wildtype; mut: mutation						
MEASUREMENT OF COPY NUMBER	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 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.						

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

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Date of batch release: 12.03.2024

Signature batch release: Björn Nowack

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