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BATCH CERTIFICATE

For Research Use Only

PRODUCT INFORMATION AND	QUALITY CONTROL				
NAME OF PRODUCT	ESR1 Reference Vial 1 1% AF cfDNA				
DESCRIPTION	ESR1 Reference Vial 1 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.L536H and ESR1 p.Y537C.				
CATALOG NUMBER	SID-000145				
BATCH NUMBER	00600				
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 capMaterial: Polypropylen (PP)				
DATE OF MANUFACTURE	23.11.2023				
EXPIRY DATE	22.11.2025				
TARGET CONCENTRATION	20 ng/μl (dsDNA)				
TARGET QUANTITY	400 ng (dsDNA)				
NOMINAL VOLUME	20 μΙ				
MUTATION * GRCh38 COSMIC v99	ESR1 p.L536H (COSV52795259*, substitution, c.1607T>A, Exon 8) ESR1 p.Y537C (COSV52782924*, substitution, c.1610A>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: 20.0 ng/μl ± 15% (17.0 – 23.0 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	168 bp			PASS			
	Quantification	44.5 ng/μl (total DNA) 21.9 ng/μl (dsDNA)		PASS				
	Allele	Mutation		AF in %		PASS / FAIL		
	frequency	ESR1 p.L536H		1.27	PASS			
	riequericy	ESR1 p.Y537C		1.20		PASS		
COMMENTS / REMARKS	Additional infor	Additional information: Measurement of copy number						
	Mutation	Mutation		CN wt/ng		CN mut/ng		
	ESR1 p.L536H	ESR1 p.L536H		293.94		3.78		
	ESR1 p.Y537C	ESR1 p.Y537C		283.15		3.44		
		wt: wildtype; mut: mutation						
MEASUREMENT OF COPY NUMBER	DNA input of 1 ng. samples according values per nanogi factors, and drople depending on the	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:

Björn Nowack, Managing Director

Date of batch release: 28.11.2023

Signature batch release: Björn Nowack

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