

Multiplex cfDNA Reference Standard

IMPORTANT: Centrifuge tube prior to opening to prevent loss of product

PRODUCT INFORMATION

Catalog ID	HD786
Batch ID	41357
Product Description	Structural Multiplex cfDNA Reference Standard
Date of Manufacture	12-Dec-2019
Manufacturing QMS Status	ISO 13485

PROPERTIES

Quantity	350 ng
Concentration	20 ng/ μ L
Average Fragment Length	160 bp
Buffer	Tris-EDTA (10 mM Tris-HCl, 1 mM EDTA), pH 8.0
Storage Conditions	+4°C (2-8°C)
Use by	For the latest information on product shelf life, please visit our website: https://horizondiscovery.com/products/diagnostic-reference-standards/reference-standards-product-information

CUSTOMER SUPPORT

Technical Support	technical@horizondiscovery.com
Customer Service	orders@horizondiscovery.com

ADDITIONAL INFORMATION

N/A

Horizon Discovery

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QUALITY CONTROL

 Allele Frequency (AF) / Copy Number and Genotype: **Droplet Digital™ PCR**

Gene	Variant	Copy Number (copies/μL)			Expected AF (%) / Copy Number	Actual AF (%) / Copy Number	Acceptance Criteria (%)		Pass/Fail
		WT	Mut	Total			Low	High	
GNA11	Q209L	3700	189	3889	5.6	4.85	3.90	7.30	PASS
AKT1	E17K	3240	164	3404	5.0	4.83	3.50	6.50	PASS
PIK3CA	E545K	3690	194	3884	5.6	4.99	3.90	7.30	PASS
EGFR	V769_D770insASV	1551	86	1637	5.6	5.27	3.90	7.30	PASS
EGFR	ΔE746-A750	3920	258	4178	5.3	6.17	3.70	6.90	PASS
ROS1	SLC34A2/ROS1 Fusion	2740	182	2922	5.6	6.22	3.90	7.30	PASS
RET	CCDC6/RET Fusion	2592	108	2700	5.0	3.99	3.50	6.50	PASS
MET	Amplification	N/A	N/A	N/A	4.5 copies	4.71	3.20*	5.90*	PASS
MYC-N	Amplification	N/A	N/A	N/A	9.5 copies	10.95	7.60*	11.40*	PASS

 Fragmentation Size: **D1000 DNA ScreenTape assay (Agilent Technologies) TapeStation software version A.02.02**

Acceptance Criteria	Reading	Pass/Fail
160 bp + 10% (144 bp – 176 bp)	168 bp	PASS

 Quantification: **Qubit® dsDNA BR assay (Invitrogen)**

Acceptance Criteria	Reading	Pass/Fail
20 ng/μL + 15% (17.0 – 23.0 ng/μL)	18.1 ng/μL	PASS

* This value denotes acceptance criteria for number of copies

FOR RESEARCH USE ONLY

Manufactured in the UK

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