

Multiplex cfDNA Reference Standard

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

PRODUCT INFORMATION	
Catalog ID	HD833
Batch ID	
Product Description	OncoSpan cfDNA Reference Standard Set
Date of Manufacture	
Manufacturing QMS Status	ISO 13485

PROPERTIES	
Quantity	350 ng
Concentration	20 ng/μL
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	

QUALITY CONTROL

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

Gene	Variant	Copy Number (copies/μL)			Expected AF (%)	Actual AF (%)	Acceptance Criteria (%)		Pass/Fail
		WT	Mut	Total			Low	High	
BRAF	V600E				10.50		9.45	11.55	
KIT	D816V				10.00		8.00	12.00	
EGFR	ΔE746-A750				2.00		1.40	2.60	
EGFR	p.L858R				3.00		2.10	3.90	
EGFR	p.T790M				1.00		0.70	1.30	
EGFR	p.G719S				24.50		22.05	26.95	
KRAS	p.G13D				15.00		12.00	18.00	
KRAS	p.G12D				6.00		4.80	7.20	
NRAS	Q61K				12.50		11.25	13.75	
PIK3CA	p.H1047R				17.50		15.75	19.25	
PIK3CA	p.E545K				9.00		7.20	10.80	

Allele Frequency (AF) and Genotype: **Droplet Digital™ PCR** (additional variants detected for information only)

Gene	Variant	Copy Number (copies/μL)			Expected AF (%)	Actual AF (%)
		WT	Mut	Total		
ALK	3'_UTR_insertion				10.00	
APC	P.T1493T				35.00	
BRCA2	p.K1691fs*15				32.50	
CTNNB1	p.S33Y				32.50	
CTNNB1	p.S45del				10.00	
EGFR	p.Q787Q				15.00	
FBXW7	p.S668fs*39				32.50	
FLT3	p.P986fs*>8				10.00	
KIT	p.L862L				7.50	
MET	p.A1357A				7.00	
MET	p.L238fs*25				7.00	
NOTCH1	p.P668S				30.00	
RET	p.L769L				60.00	
TP53	p.P72R				92.50	

Horizon Discovery

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QUALITY CONTROL (continued)Fragmentation Size: **D1000 DNA ScreenTape assay (Agilent Technologies) TapeStation software version 4.1.1**

Acceptance Criteria	Reading	Pass/Fail
160 bp \pm 10% (144 bp – 176 bp)		

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

Acceptance Criteria	Reading	Pass/Fail
20 ng/ μ L \pm 15% (17.0 – 23.0 ng/ μ L)		

FOR RESEARCH USE ONLY

Manufactured in the UK

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