

Multiplex gDNA Reference Standard

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

PRODUCT INFORMATION	
Catalog ID	HD827
Batch ID	
Product Description	OncoSpan gDNA Reference Standard
Date of Manufacture	
Manufacturing QMS Status	ISO 13485

PROPERTIES	
Quantity	1 µg
Concentration	50 ng/µL
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	Expected AF (%)	Actual AF (%)	Acceptance Criteria (%)		Pass/Fail
				Low	High	
BRAF	V600E	10.50		9.45	11.55	
KIT	D816V	10.00		9.00	11.00	
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		13.50	16.50	
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	Expected AF (%)	Actual AF (%)
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)		
Quality: Agarose gel electrophoresis **		
Acceptance Criteria	Band Present/Absent	Pass/Fail
Bright band of high molecular weight		
Quantification: Spectrophotometry (A260) **		
Acceptance Criteria	50 ng/μL ±4% (Accepted Range: 48-52 ng/μL)	

**Quality Control Test occurs before gDNA is multiplexed

FOR RESEARCH USE ONLY

Manufactured in the UK