

## Quantitative Multiplex gDNA Reference Standard

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

PRODUCT INFORMATION	
Catalog ID	HD701
Batch ID	
Product Description	<a href="#">Quantitative Multiplex Reference Standard gDNA</a>
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: <a href="https://horizondiscovery.com/products/diagnostic-reference-standards/reference-standards-product-information">https://horizondiscovery.com/products/diagnostic-reference-standards/reference-standards-product-information</a>

CUSTOMER SUPPORT	
Technical Support	<a href="mailto:technical@horizondiscovery.com">technical@horizondiscovery.com</a>
Customer Service	<a href="mailto:orders@horizondiscovery.com">orders@horizondiscovery.com</a>

### 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	10.5		9.45	11.55	
KIT	D816V	10.0		9.00	11.00	
EGFR	ΔE746-A750	2.0		1.40	2.60	
EGFR	L858R	3.0		2.10	3.90	
EGFR	T790M	1.0		0.70	1.30	
EGFR	G719S	24.5		22.05	26.95	
KRAS	G13D	15.0		13.50	16.50	
KRAS	G12D	6.0		4.80	7.20	
NRAS	Q61K	12.5		11.25	13.75	
PIK3CA	H1047R	17.5		15.75	19.25	
PIK3CA	E545K	9.0		7.20	10.80	

 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

**Horizon Discovery**

8100 Cambridge Research Park,  
Waterbeach, Cambridge,  
CB25 9TL, United Kingdom  
www.horizondiscovery.com/

t + 44 (0) 1223 976 000  
f + 44 (0) 1223 655 581  
e orders@horizondiscovery.com