

Multiplex gDNA Reference Standard

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

PRODUCT INFORMATION

Catalog ID	HD752
Batch ID	
Product Description	Tru-Q NGS DNA 0 Multiplex 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

Horizon Discovery

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

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e orders@horizondiscovery.com

QUALITY CONTROL

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

NB	Gene	Variant	Expected AF (%)	Actual AF (%)	Acceptance Criteria (%)		Pass/Fail
					Low	High	
**	BRAF	V600E	8.00		6.40	9.60	
	EGFR	G719S	16.70		15.00	18.40	
	KRAS	G13D	25.00		22.50	27.50	
***	ABL1	T315I	0.00	Variants not present in non-engineered wild type parental cell lines used to make Tru-Q 0			
	ALK	F1174L	0.00				
	EGFR	T790M	0.00				
	FLT3	D835Y	0.00				
	FLT3	ΔI836	0.00				
	GNAQ	Q209L	0.00				
	IDH1	R132H	0.00				
	IDH2	R140Q	0.00				
	JAK2	V617F	0.00				
	KIT	D816V	0.00				
	MET	Y1253D	0.00				
	PDGFRA	D842V	0.00				
	BRAF	V600G	0.00				
	BRAF	V600K	0.00				
	BRAF	V600M	0.00				
	BRAF	V600R	0.00				
	EGFR	L858R	0.00				
	EGFR	L861Q	0.00				
	EGFR	ΔE746-A750	0.00				
	FGFR2	S252W	0.00				
	GNA11	Q209L	0.00				
	IDH1	R132C	0.00				
	IDH2	R172K	0.00				
	KRAS	A146T	0.00				
	KRAS	G12A	0.00				
	KRAS	G12C	0.00				
	KRAS	G12D	0.00				
	KRAS	G12R	0.00				
	KRAS	G12S	0.00				
	KRAS	G13V	0.00				
	KRAS	Q61H	0.00				
	KRAS	Q61L	0.00				
	MEK1 (MAP2K1)	P124L	0.00				
NOTCH	L1600P****	0.00					
NRAS	Q61H	0.00					
NRAS	Q61K	0.00					
NRAS	Q61L	0.00					
NRAS	Q61R	0.00					
PI3KCA	E542K	0.00					
PI3KCA	E545K	0.00					
†	PI3KCA	H1047R	30.00				

†Endogenous mutations present in parental cell lines

**Variants confirmed by ddPCR on the Tru-Q 0 final product to check correct blending ratio of wild type parental cell lines

***Variants can be assumed not present in Tru-Q 0 as product is blended from non-engineered wild type parental cell lines

****NOTCH L1600P mutation may also be referred to as NOTCH L1601P

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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)	
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*Quality Control Test occurs before gDNA is multiplexed

FOR RESEARCH USE ONLY

Manufactured in the UK

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