

DNA STANDARD FOR ACCEL-AMPLICON™ 56G ONCOLOGY PANEL

Q-SEQ HDx™ QUANTITATIVE MULTIPLEX DNA REFERENCE STANDARDS

The DNA Standard included in the Accel-Amplicon 56G Oncology Panel contains precise allelic frequencies for major oncology targets verified using digital PCR (see table below). The DNA Standard is meant to be used as a positive control that can be run alongside samples or utilized during troubleshooting.

DNA Standard Concentration: 5 ng/μl

DNA Standard Volume to be Used in the Multiplex PCR Step: 2 μl

DNA Standard Total Volume Provided: 8 μl

VARIANTS AND EXPECTED ALLELE FREQUENCIES

GENE	AA	CHR	POS	REF	ALT	EXPECTED ALLELE FREQUENCY
<i>EGFR</i>	G719S	7	55241707	G	A	24.5
<i>PIK3CA</i>	H1047R	3	178952085	A	G	17.5
<i>KRAS</i>	G13D	12	25398281	C	T	15.0
<i>NRAS</i>	Q61K	1	115256530	G	T	12.5
<i>BRAF</i>	V600E	7	140453136	A	T	10.5
<i>KIT</i>	D816V	4	55599321	A	T	10.0
<i>PIK3CA</i>	E545K	3	178936091	G	A	9.0
<i>KRAS</i>	G12D	12	25398284	C	T	6.0
<i>EGFR</i>	L858R	7	55259515	T	G	3.0
<i>EGFR</i>	ΔE746-A750	7	55242465-55242479	Del15bp		2.0
<i>EGFR</i>	T790M	7	55249071	C	T	1.0