

Data Sheet

dPCR CGT Assay

dPCR CGT assays	AMP resistance (FAM, HEX)
Assay catalog numbers	250255, 250256
dPCR instrument	QIAcuity® Digital PCR System
dPCR master mix	QIAcuity Probe PCR Kit
Probe fluorophores and quencher	FAM, HEX: ZEN/Iowa Black
Amplicon length	100 bp
Restriction enzyme compatibility	<i>MspI</i> , <i>HpaII</i> , <i>SmaI</i>

Description

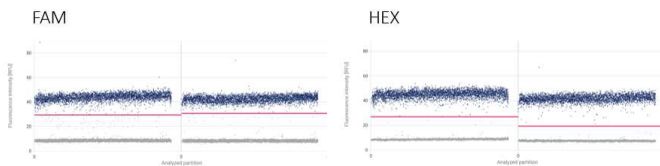
The AMP assay is a wet-lab validated, 20x assay targeting a gene sequence that confers resistance to ampicillin and carbenicillin in bacteria. This assay can be used to detect residual plasmid DNA in adeno-associated virus (AAV) particle preparations.

Synthetic DNA sequence for positive controls

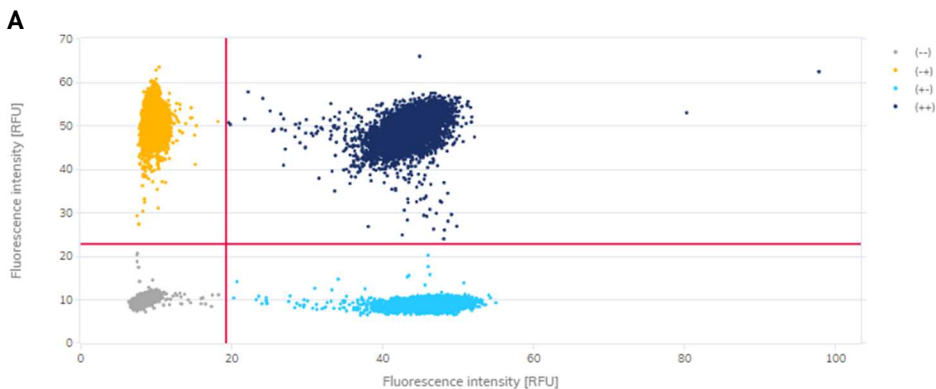
ACACTATCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGA
 TGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAAACTGCG
 GCCAACTTACTTCTGACAACGATCGGAGGACC

Sample data

1D scatter plot: Single-well data of AMP assays (Green and Yellow channels) on plasmids containing an ampicillin resistance cassette.



2D scatter plot: Single-well data of (A) AMP assay (Green channel, X-axis) and CMV enhancer assay (Yellow channel, Y-axis) or (B) CMV enhancer assay (Green channel, X-axis) and AMP assay (Yellow channel, Y-axis)



Document Revision History

Date	Changes
06/2022	Initial release

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