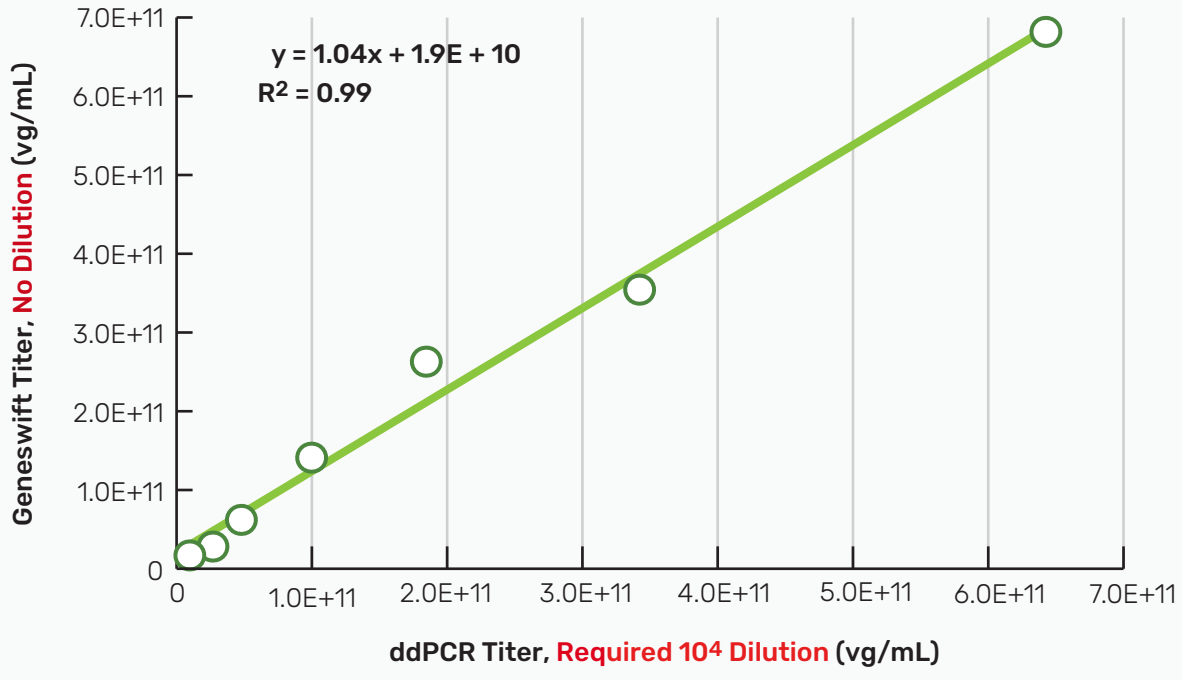
Gator® GeneSwift Assay Comparison

Introduction

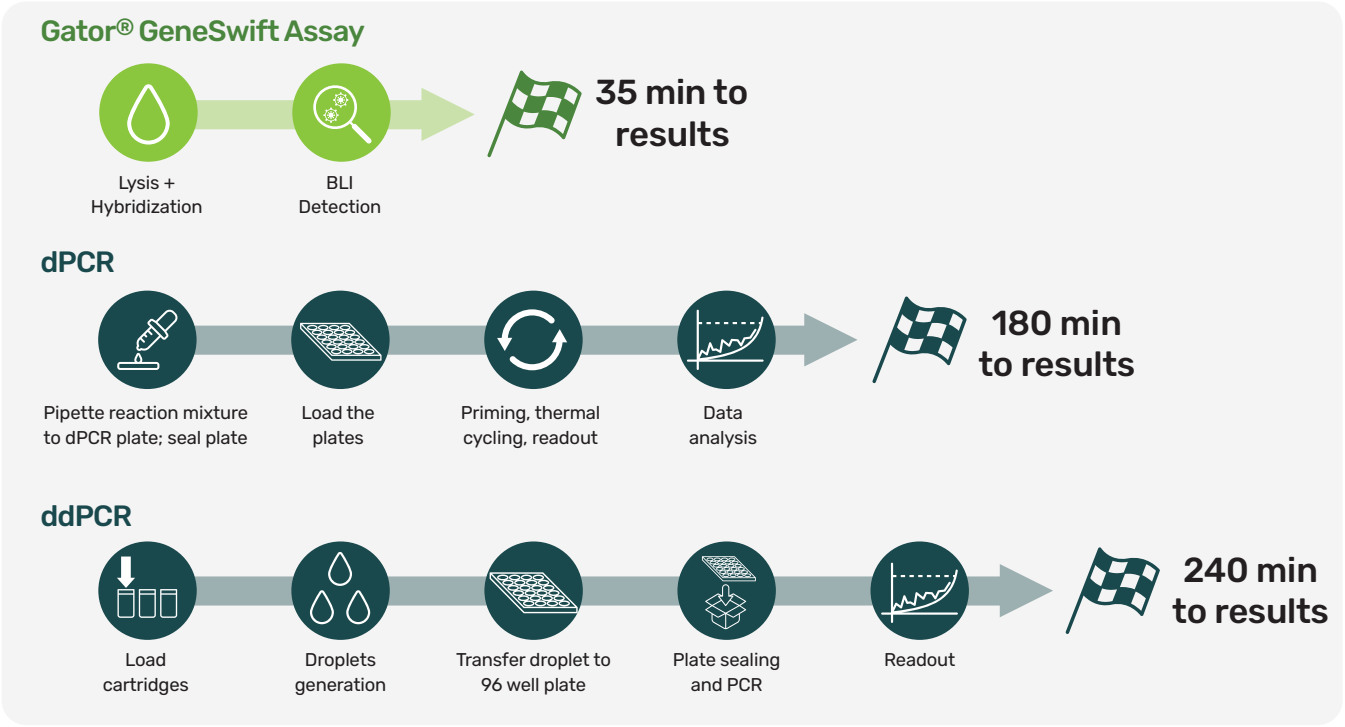
Viral genome titer is a key CQA in AAV characterization. Gator Bio has developed the GeneSwift Assay, a newly developed AAV titer assay based on DNA hybridization, immunochemistry and BLI (BioLayer Interferometry) detection.

The information in this document is to compare and contrast the GeneSwift Assay with other commonly used titer assays such as dPCR, ddPCR and/or qPCR

GeneSwift linearity test and its correlation with ddPCR



GeneSwift Assay is much faster and simpler to determine genome titer



Feature comparison among GeneSwift, dPCR/ddPCR and qPCR assays

Performance Attribute	Gator® GeneSwift	dPCR/ddPCR	qPCR
Titer Dynamic Range (vg/ml)	E+9 to E+12	E+6 to E+7	E+3 to E+7
CV (%)	2-15%	3-10%	5-30%
Total Assay Time (min), 8 samples	35	180-240	240-300
Throughput (Samples/Run)	8, 16 or 32	Up to 96	Up to 96
Tedious or Multiple Serial Dilutions for Sample Preparation?	Not Required	Required	Required
Crude Matrix Compatibility?	Compatible	Not Compatible	Not Compatible
Compatible with PCR Inhibitors, DNase I or Proteinase K?	Compatible	Not Compatible	Not Compatible
Calibration Curve?	Required	Not Required	Required

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