

# Gator® AAVX Probes for Rapid and Label-free Quantitation of AAV Serotypes

Gator® AAVX Probes are high specificity, nanobody-based biosensors that enable direct capture and quantitation of different serotypes of adeno-associated virus (AAV) in crude lysates, column eluates, cell lysates, and cell culture supernatants, serving as an alternative to traditional time-consuming analytical methods such as quantitative polymerase chain reaction (qPCR), droplet digital polymerase chain reaction (ddPCR), dot blot, and enzyme-linked immunosorbent assay (ELISA). Gator® AAVX Probes use the proven CaptureSelect™ (Thermo Fisher Scientific) high affinity and high specificity anti-AAVX antibody.

## PRODUCT INFORMATION

### Part Number

160017

### Includes

AAVX probes (96 probes/tray)

## PERFORMANCE SUMMARY

### Dynamic Range

$1 \times 10^9$  -  $1 \times 10^{13}$  vp/mL

### Assay Run Time

8 samples in 4 minutes  
96 samples in 26 minutes

### Crude Sample Tolerant

Yes

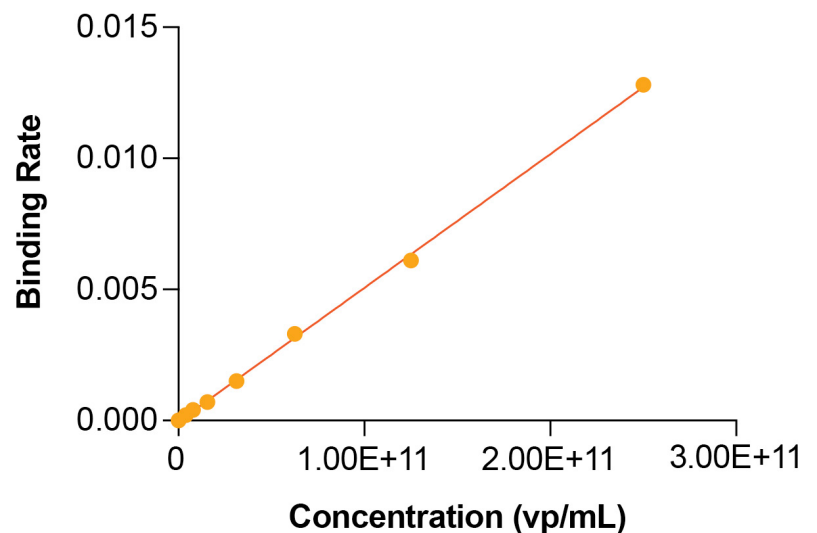
### Regeneration

Yes

## KEY BENEFITS

- One-step assay
- Compatible with AAV1-8 and 10
- Broad dynamic range
- Crude sample tolerant
- Reusable at least 10 times

## DYNAMIC RANGE



The graph shows an AAV2 standard curve for concentrations  $3.90E+09$  to  $2.5E+11$  (vp/mL). The binding rate between the analyte and the probe surface is a measure of the analyte concentration.

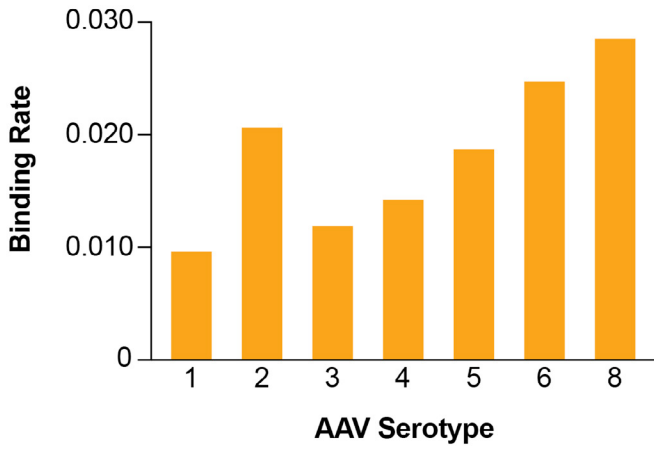
## ACCURACY AND PRECISION

Conc (vp/mL)	Avg Binding Rate	Avg Calc Conc (vp/mL)	% Recovery	% CV (n=3)
$2.00E+12$	0.1106	$2.04E+12$	100.00	1.50
$5.10E+10$	0.0045	$5.27E+10$	96.67	1.81
$8.30E+08$	0.0001	$8.30E+08$	98.50	10.90

The AAV5 serotype was used to test accuracy and precision. The table above shows recovery close to 100% and percent coefficient of variation (%CV) ranging from around 1.50% at medium and high titers to 10.90% at low titers.

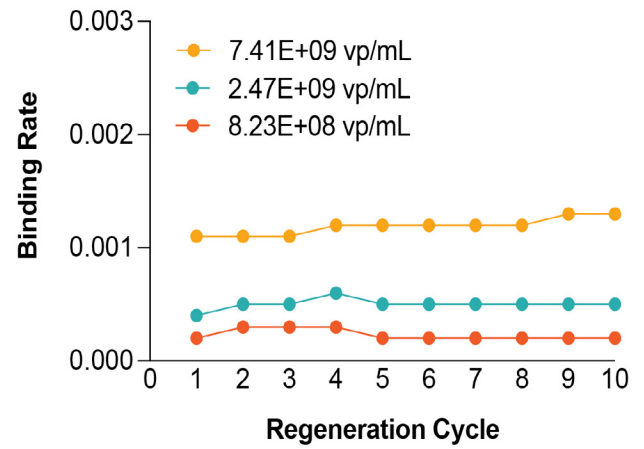


### SEROTYPE COMPATIBILITY



Binding rate for different AAV serotypes using Gator® AAVX Probes. All serotypes were purchased from [www.virovek.com](http://www.virovek.com).

### REGENERATION PERFORMANCE



Performance up to 10 regenerations at 3 concentrations of the same probes with no observed loss in binding rate.

