

Gator[®] AAV9 Probes for Rapid and Label-free Quantitation of AAV9

Gator[®] AAV9 Probes are high specificity, nanobody-based biosensors that enable direct capture and quantitation of adeno-associated virus (AAV) serotype 9 in crude lysates, column eluates, cell lysates, and cell culture supernatants. They serve 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[®] AAV9 Probes use the proven CaptureSelect[™] (Thermo Fisher Scientific) high affinity and high specificity anti-AAV9 nanobody.

PRODUCT INFORMATION

Part Number

160021

Includes

AAV9 probes (96 probes/tray)

PERFORMANCE SUMMARY

Dynamic Range

$3 \times 10^9 - 1 \times 10^{13}$ vp/mL

Assay Run Time

8 samples in 4 minutes
96 samples in 26 minutes

Crude Sample Tolerant

Yes

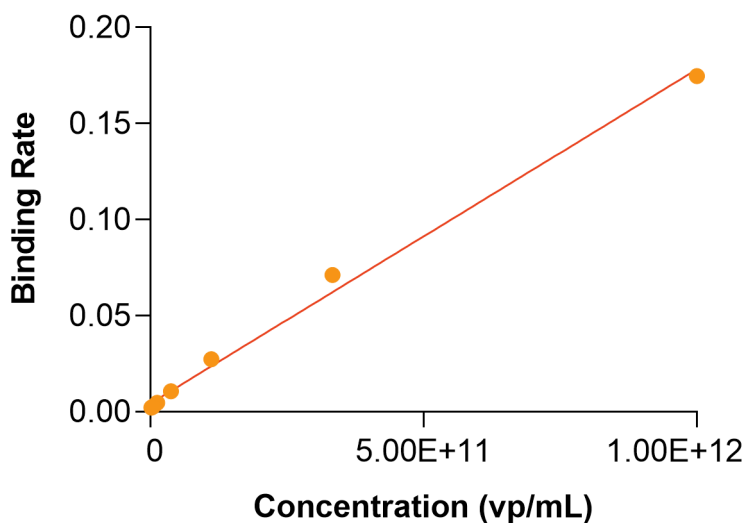
Regeneration

Yes

KEY BENEFITS

- One-step assay
- Specific for AAV9
- Crude sample tolerant
- Reusable at least 10 times

DYNAMIC RANGE



The graph shows an AAV9 standard curve for concentrations $3.00\text{E}+09$ to $1.00\text{E}+12$ (vp/mL). The binding rate between the analyte and the probe surface is a measure of the analyte concentration.

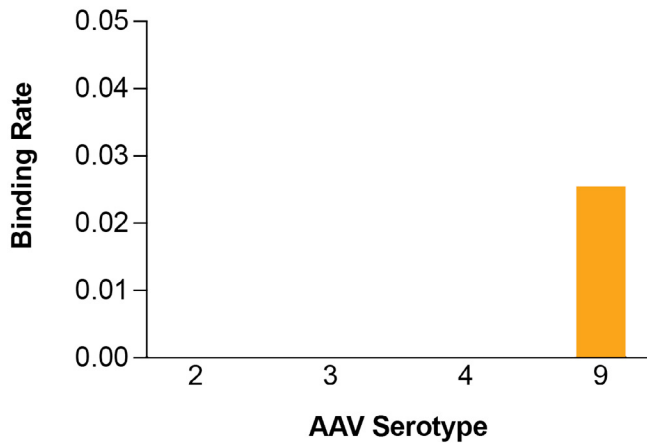
ACCURACY AND PRECISION

Conc (vp/mL)	Avg Binding Rate	Avg Calc Conc (vp/mL)	% Recovery	% CV (n=4)
1.00E+12	0.1762	1.04E+12	96.00	3.70
5.00E+10	0.0067	4.66E+10	93.00	5.10
2.50E+09	0.0006	2.49E+09	99.60	4.50

The AAV9 serotype was used to test accuracy and reproducibility. The table above shows recovery close to 100% and percent coefficient of variation (%CV) ranging from around 3.70% at medium and high titers to 4.50% at low titers.

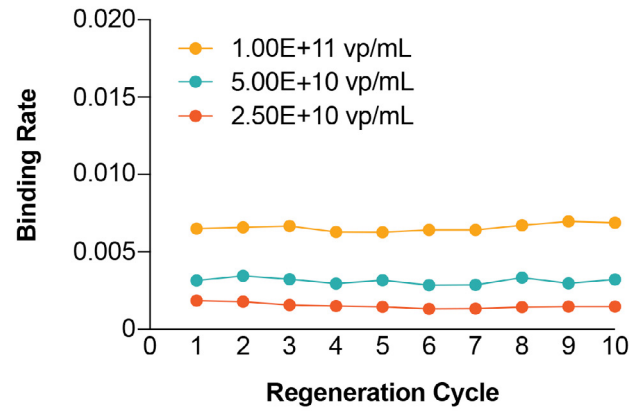


SEROTYPE SPECIFICITY



AAV9 probes are selective and bind to AAV9 serotype. The figure above shows AAV9 specificity over other serotypes. All serotypes were purchased from www.virovek.com.

REGENERATION PERFORMANCE



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

