

Gator[®] AdenoQuant Probes for quantitation of Adenovirus particles

Gator[®] AdenoQuant probes are designed to quantify Adenovirus particles. These one-of-a-kind probes detect the hexon capsomers of the adenovirus making it useful for accurate physical titer. Currently, OD260 is used for measuring the concentration of Adenovirus but only works for purified samples. Gator's AdenoQuant probes are compatible with purified as well as crude matrixes and thus useful for direct quantitation of adenovirus in upstream and downstream samples. The AdenoQuant probes are coated with CaptureSelect™ Biotin- Anti-Adenovirus conjugate that binds with the viral particle with high affinity.

PRODUCT INFORMATION

Part Number

160043

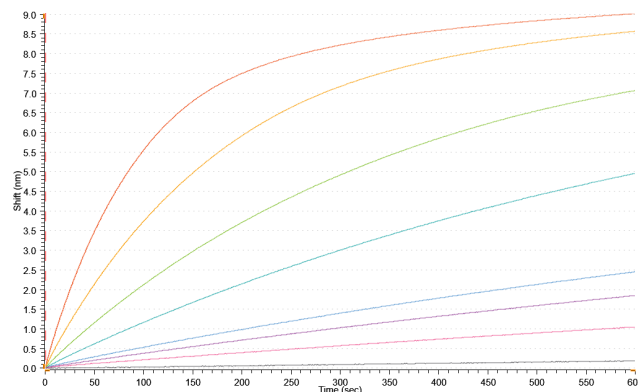
Includes

AdenoQuant Probes (96 probes/tray)

KEY BENEFITS

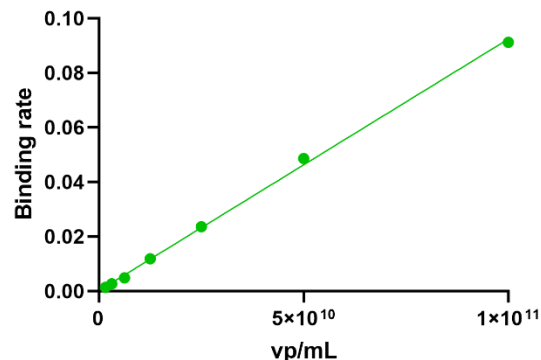
- One-step assay for quantitation of adenovirus particles.
- Dynamic range: 1E+09 to 1E+11 vp/mL with CV < 10%
- Compatible with purified and crude matrixes.
- CV < 10%
- 8, 16 or 32 samples in 10 mins (system dependant)

ADENOQUANT DYNAMIC RANGE



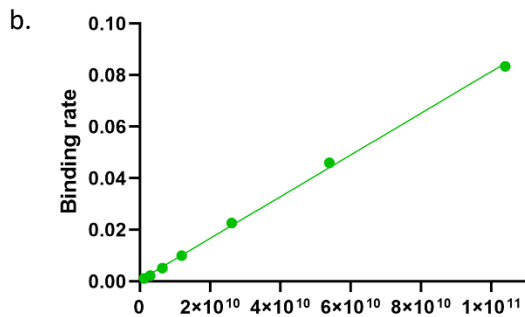
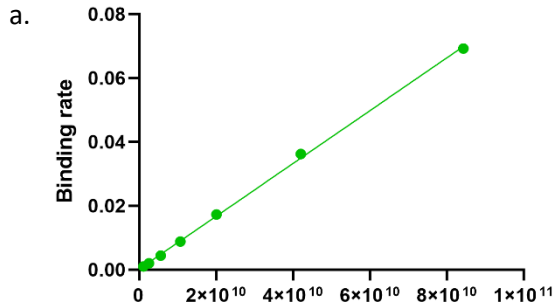
Concentration dependant nanometer shift for binding of Adenovirus AdV5 in Q buffer (1.00E+9 to 1.00E+11 vp/mL) on AdenoQuant probes.

LINEAR DYNAMIC RANGE WITH R²=0.99



Standard curve for Adenovirus AdV5 in Q Buffer. Concentration ranges from 1.00E09-1.00E11 vp/mL. R²=0.99.

QUANTITATION AND RECOVERY IN CRUDE LYSATES



Standard curve for Adenovirus Adv5 in (a) neat crude lysate and (b) crude lysate diluted 1:10 in Q buffer. Concentration ranges from 1.00E09-1.00E11 vp/mL. $R^2=0.99$ for both cases.

| Titer in Q buffer | Titer (Neat Crude Lysate) | Titer (1:10 Crude Lysate) | % Recovery (Neat Crude Lysate) | % Recovery (1:10 Crude Lysate) |
|-------------------|---------------------------|---------------------------|--------------------------------|--------------------------------|
| 1.00E+11 | 8.43E+10 | 1.04E+11 | 84.30 | 104.00 |
| 5.00E+10 | 4.20E+10 | 5.39E+10 | 84.00 | 107.80 |
| 2.50E+10 | 2.01E+10 | 2.61E+10 | 80.40 | 104.40 |
| 1.25E+10 | 1.07E+10 | 1.19E+10 | 85.60 | 95.20 |
| 6.25E+09 | 5.57E+09 | 6.36E+09 | 89.12 | 101.76 |
| 3.13E+09 | 2.52E+09 | 2.90E+09 | 80.51 | 92.65 |
| 1.56E+09 | 1.11E+09 | 1.22E+09 | 71.15 | 78.21 |

Adv5 titer and 5 recoveries in neat crude lysate and crude lysate diluted 1:10 in Q buffer. Recovery was >80% in both neat and diluted lysates.

SUMMARY

AdenoQuant probes are the only direct quantitation probes available for quantifying adenovirus particles with benefits like:

- Broad dynamic range.
- Compatibility with crude matrices.

Note: Adenovirus is classified as a biosafety level 2 organism. All the experiments should be done inside a certified Class II biosafety cabinet with proper protective equipment.

