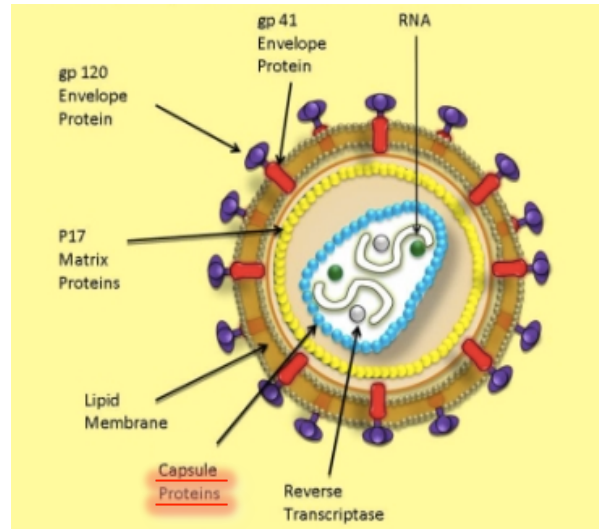


Lentivirus Titration XpressCard (ATG-LT-01)

Introduction

Antagen's Lentivirus Titration XpressCard is a rapid lateral flow immunoassay that allows quick confirmation of useful lentivirus titers* in the packaging supernatants. The test detects lentiviral capsule proteins released into the packaging supernatant as a surrogate marker to determine whether virus production yields a usable titer for subsequent infection. This assay takes only 10-15 minutes, compared to the conventional re-infection based assay that takes 2-3 days.



Protocol

- 1) Place the card horizontally;
- 2) Add 100 μ L of packaging supernatant directly to the Sample Well;
- 3) Wait for 10-15 minutes.

A red control line will always appear in 5 minutes. Depending on the titers (a usable titer should be at least 1×10^6 IFU/mL), a dark red test line will appear within 10-15 minutes.

Storage

Store the cards in their original packaging at room temperature. This product is stable for up to 18 months from the certified date. Freezing the strips is not recommended.

* Users are encouraged to correlate T line intensity with functional titers in their own infection system, as different cell types have different susceptibility to lentivirus. In the above example, HEK293 cells were infected with serially diluted lentivirus packaging supernatants. After 72 hrs, ZsGreen1-expressing cells were observed under fluorescence microscope. A dark red test line was generated by a dilution containing $\sim 2 \times 10^6$ IFU/ml (as measured by flow cytometry of transduced HEK293 cells).

