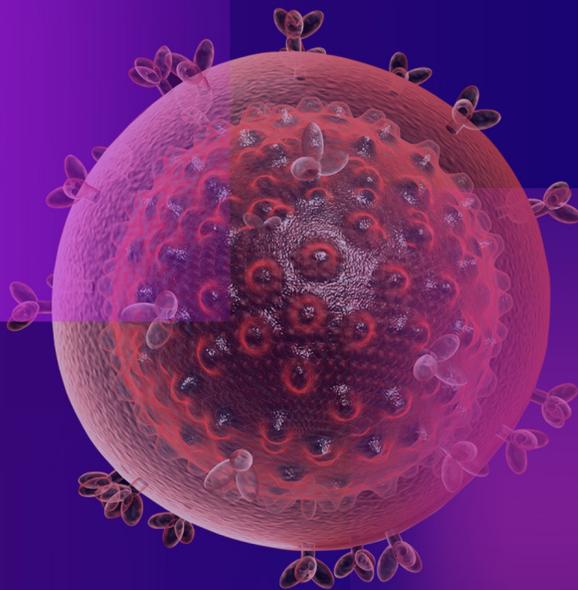




HIV-p24 ELISA Kit

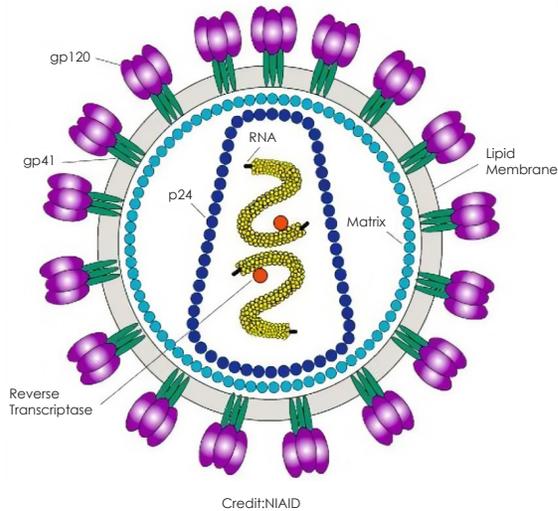


TransGen, To Achieve Life Science Dreams

HIV-p24 ELISA Kit (NE107)

The physical titer of lentivirus is determined by detecting the p24 protein content in lentivirus lysate.

HIV Structure

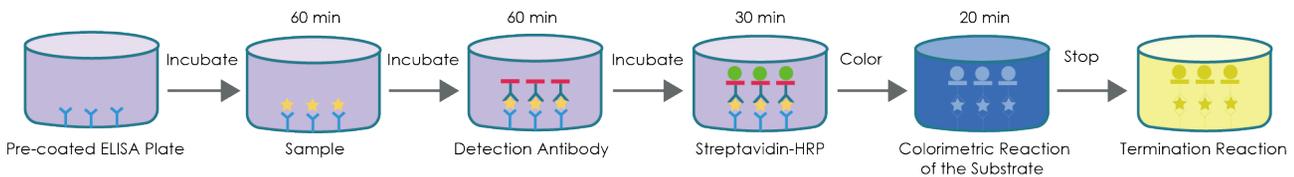


p24 is a highly conserved and most abundant major structural protein in HIV particles. It is the product encoded by gag gene and plays a key role in the packaging and maturation of the virus. Lentiviral vector is a viral vector system modified on the basis of HIV-1, which can efficiently transfer target genes into cells. p24 protein content represents the number of lentivirus particles, and ELISA is the preferred method to determine the physical titer of lentivirus by detecting p24 protein content.

Features

- Wide detection range: 3.13~200 pg/ml
- High sensitivity: 1.0 pg/ml
- High precision: CV%<10%
- Simple operation

Detection Process

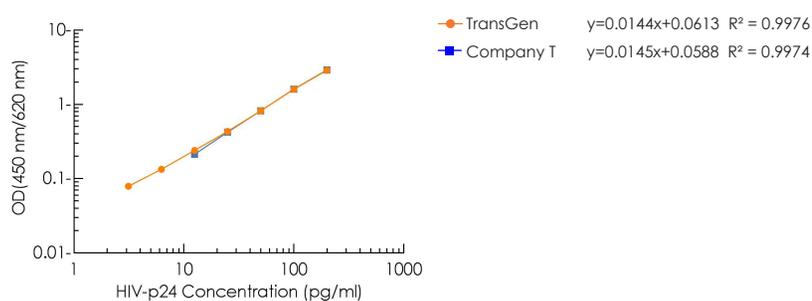


The p24 protein in lentiviral particles is released by lysis, then binds to the pre-coated p24 antibody on microplate wells. After washing to remove the unbound substance, add biotin-labeled p24 detection antibody, and add horseradish peroxidase-labeled streptavidin (Streptavidin-HRP) to form the "coated antibody-HIV-p24 protein-detection antibody-Streptavidin-HRP" immune complex. The concentration of HIV-p24 in the sample is indicated by the depth of colorimetric reaction of the substrate TMB.

OD Value of Standard Curve

Standards Concentration (pg/ml)	TransGen	OD-Company T
200	2.879	2.914
100	1.595	1.607
50	0.819	0.818
25	0.432	0.422
12.5	0.24	0.213
6.25	0.134	—
3.13	0.079	—
0	0.019	0.016

Standard Curve



The standard curve was obtained by the four-parameter fitting with the theoretical concentration of the standard product and the corresponding OD value. According to the standard curve, it can be seen that the index of TransGen product is comparable to competitor.

Kit Contents

Component	Specification	Storage	Preparation
HIV-p24 Antibody Pre-coated ELISA Plate	96 T	at 2-8 °C	Ready-to-use
HIV-p24 Standard	120 µl/bottle	at 2-8 °C	10 ng/mL, liquid, dilute with complete medium
Lysate	6 ml/bottle	at 2-8 °C	Ready-to-use
1×HIV-p24 Detection Antibody	12 ml/bottle	at 2-8 °C	Ready-to-use
1×Streptavidin-HRP	12 ml/bottle	at 2-8 °C in the dark	Ready-to-use
20× Lotion	50 ml/bottle	at 2-8 °C	Dilute with deionized water
TMB Chromogenic Substrate	12 ml/bottle	at 2-8 °C in the dark	Ready-to-use
Stop Solution	12 ml/bottle	at 2-8 °C	Ready-to-use
Plate Sealers	4	—	—
Manual	1	—	—



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