AltoStar® HIV RT-PCR Kit 1.5

Detection and quantification of human immunodeficiency virus type 1 (HIV-1) specific RNA

For genotypes HIV-1 groups M, N and O

Dual target detection: with amplification of separate regions of the HIV-1 genome

Target 1 = integrase (INT),
Target 2 = protease (PRO)

Quantification Standards calibrated against the 4th WHO International Standard for HIV-1 RNA (NIBSC code: 16/194; subtype B)
The linear range of the AltoStar® HIV RT-PCR Kit 1.5 for the quantification of HIV in human EDTA plasma is 100 - 10,000,000 IU/ml. A graphical representation of the data is shown in figure 1.

The AltoStar® HIV RT-PCR Kit 1.5 was evaluated in a comparative study with the CE-marked cobas® HIV-1 test (Roche). A graphical representation of the data is shown in figure 2.

There was very good correlation between the quantitative results obtained with the AltoStar® HIV RT-PCR Kit 1.5 and the cobas® HIV-1 test (correlation coefficient R = 0.97 (R² = 0.95)).

For use with the automated AltoStar® Workflow
Efficiency, reliability and process safety

- **Assay principle**: Real-time PCR based test kits
- **PCR time**: 2 to 2.5 hours
- **Purification**: AltoStar® Purification Kit 1.5
- **Throughput**: Up to 48 analyses per run
- **PCR instrument**: CFX96™ Deep Well Dx System (Bio-Rad)

Features of the AltoStar® HIV RT-PCR Kit 1.5 dual target assay at a glance

- **Analytical specificity**: ≥ 99%
- **Limit of detection**: 30.0 IU/ml (95 % confidence interval: 21.3 - 54.3 IU/ml)
- **Linear range**: 100 - 10,000,000 IU/ml
- **Genotypes detected**: HIV-1 Group M (subtypes A, C, D, E, F, G, H, AG)
  - HIV-1 Group N, HIV-1 Group O
- **Targets detected**: Target 1: integrase (INT)
  - Target 2: protease (PRO)
- **Validated sample type**: Human EDTA plasma
- **Sample volume**: 1000 μl
- **Number of rxns**: 96
- **Unit**: IU/ml
- **Calibration**: 4th WHO International Standard for HIV-1 RNA
  - (NIBSC code: 16/194; subtype B)
- **Regulatory compliance**: CE-IVD marked in vitro diagnostic test

Order details

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