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Introduction

E.Z.N.A.™ HP Viral RNA/DNA Kit is designed for rapid isolation of viral RNA and DNA from cell free fluids such as plasma, serum, urine, and cell culture supernatant. The procedure completely removes contaminants and enzyme inhibitors, making viral RNA/DNA isolation fast, convenient, and reliable. By using a procedure that concentrate the viral particles from sample before the nucleic acid extraction, this kit allows to use large starting volume of sample (up to 1 ml) so that the lower titer virus can be detected in the downstream applications. RNA and DNA purified using the E.Z.N.A.™ Viral RNA/DNA method is ready for all downstream amplifications applications.

Principle

The E.Z.N.A.™ HP Viral RNA/DNA Kits use HiBind technology to purify DNA/RNA from cell free samples such as plasma and serum. Up to 1 ml of sample is first mixed with VRA Buffer to selectively precipitate the viral particles. After the centrifugation, the pellet of viral particles is resuspended with TL buffer and proteinase K, and incubate at 37°C for 10 minutes. After adjusting the binding condition by adding VBL and ethanol, the sample is applied to the HiBind RNA column to bind DNA and RNA. After two washing steps, purified viral RNA will be eluted with RNase-free water.

Storage

All components in the E.Z.N.A.™ Viral RNA/DNA Kit should be stored at room temperature except carrier RNA. Carrier RNA must be stored at 2-8°C. During shipping and storage, crystals may form in the VBL Buffer, simply warm to 37°C to dissolve. All kit components are guaranteed for at least 12 months from date of purchase.

*The PCR process is covered by U.S. Patents 4,683,195 and 4,683,202 (and international equivalents) owned by Hoffmann-LaRoche, Inc.