



HPV DNA Extraction Magnetic Particles PRODUCT DATA SHEET

HPV DNA Extraction Magnetic Particles

Description

The human papillomavirus (HPV) is the most common viral infection that results in an epithelial abnormality in the skin and mucous membranes. Cervical cancer, the third most common cancer of women in both incidence and mortality worldwide, is primarily caused by persistent infections by high-risk oncogenic HPV types in the cervix. It is well established that at least 40 HPV genotypes are involved in the development of cervical cancer, where HPV16 and HPV18, in particular, are strongly associated with the incidence of HPV-associated cancers as high-risk oncogenic genotypes. Detecting HPV is central in diagnosing and monitoring HPV-related disease. Generally, molecular diagnostic approaches are widely used for the detection of HPV infections through the amplification of genomic DNA extracted from clinical samples. Molecular diagnostics offer critical insight into the prediction and monitoring of disease progression by allowing identification of the presence of specific genetic sequences at the molecular level. However, limited sensitivity and the wide variability of the HPV genome pose challenges in the identification of HPV genes, particularly high-risk types. Extracting DNA using the magnetic beads method from HPV samples is the first and the most crucial step for the following PCR amplification. Abvigen magnetic beads are an ideal material for HPV DNA extraction, which has excellent binding ability and elution efficiency for nucleic acids.

For custom sizes, formulations or bulk quantities please contact our customer service department.

Website: www.abvigen.com **Phone:** +1 929-202-3014 **Email:** info@abvigenus.com

Characteristics

Composition: $\text{SiO}_2/\text{Fe}_3\text{O}_4$

Particle Size: 0.5~1.5 μm

Preservation Solution: Deionized pure water

Surface Modification: Silicon hydroxyl group

Additive: Trace surfactant, 0.1% Proclin 300

Storage Condition: Store at 2 - 8°C, do not freeze

1378 US-206 Ste 6-126, Skillman, NJ USA

info@abvigenus.com

Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Reserved

Email:

© Abvigen Inc All Rights



Quality Guarantee Period: 12 months

Storage

This product should be stored at 2 - 8°C. **DO NOT FREEZE.**

Advantages

Fast magnetic response time: the magnetic beads can be completely separated by about 25s.

Excellent resuspension: magnetic beads can be suspended for 15 min at room temperature.

Flexibility applicability: applied for samples with alcohol and alcohol-free buffer.

Efficient binding capacity: specially modified surface improves the ability of magnetic beads to capture nucleic acid.

For 25 mg/ml of HPV DNA Extraction Magnetic Particles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
0.5	25	6.11E+09	1.53E+11	1.5	25	2.26E+08	5.66E+09
1	25	7.64E+08	1.91E+10				

Ordering Information

Website: www.abvigen.com

Phone: +1 929-202-3014

Email: info@abvigenus.com

1378 US-206 Ste 6-126, Skillman, NJ USA

info@abvigenus.com

Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Reserved

Email:

© Abvigen Inc All Rights