

# Product Information

## Venezuelan Equine Encephalitis Virus-Like Particles (VEE VLPs)

### {AlternativeNames}

Cat. No.: **VLP-035YF**

This product is for research use only and is not intended for diagnostic use.

Recombinant Venezuelan Equine Encephalitis Virus-Like Particles (VEE VLPs) are produced in insect cells with E1 and E2. VLP is mimicking the native 3D structure of viruses which can elicit strong immune responses. However, VLPs lack viral genomic material which makes them non-infectious, unable to replicate and enhance the safety during manufacture and administration. VEE VLPs can be used in the development of VEE diagnostics and in vaccine development and R&D (including use as an immunogen).

### Product Specifications

#### Structural Proteins

Structural protein E1, E2

#### Expression Systems

HEK293 expression system

#### Form

Liquid

#### Alternative Names

Venezuelan Equine Encephalitis virus-like particles; VEE VLPs; Venezuelan Equine Encephalitis virus; VEE virus-like particles; VLPs; Virus-like Particles

#### Storage

Store at 4°C short term (2-4 weeks). Store at -80 °C long term. Avoid repeated freeze/thaw cycles.

### Virus Background

#### Virus Family

Togaviridae

#### Virus Species

Venezuelan equine encephalitis virus

#### Virus Overview

Venezuelan equine encephalitis virus is a mosquito-borne viral pathogen that causes Venezuelan equine encephalitis or encephalomyelitis (VEE). VEE can affect all equine species, such as horses, donkeys, and zebras. After infection, equines may suddenly die or show progressive central nervous system disorders. Humans also can contract this disease. Healthy adults who become infected by the virus may experience flu-like symptoms, such as high fevers and headaches. People with weakened immune systems and the young and the elderly can become severely ill or die from

this disease. The virion is spherical and approximately 70 nm in diameter. It has a lipid membrane with glycoprotein surface proteins spread around the outside.

**Virus Structure**

Enveloped, positive-sense, single-stranded RNA virus

**Related Disease**

High fevers and headaches