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## Product Data Sheet

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Product Name: Dengue-HRP

Cat. No.: GP25562

Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	Phosphate buffered saline, pH 7.4 and 25% glycerol.		

### Introduction

The DENV is small structure that can only reproduce inside a host organism. There are 4 related dengue viruses- Dengue-1, Dengue-2, Dengue-3, & Dengue4. All of them are present in the same areas of the world. The dengue virus has just about a sphere shaped structure comprised of the viral genome and capsid proteins bordered by an envelope and a shell of antigen. Subsequently infecting, the dengue virus takes over the host cell's system to replicate the viral RNA genome and viral antigens. Once matured, the resynthesized DENVs are discharged and continue to infect additional host cells.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Recombinant Dengue-HRP is genetically designed dengue protein conjugated to Horseradish peroxidase which detects low titer dengue antibodies having a sharp OD value compared to the control with optimal dilutions. The proprietary Dengue-HRP protein sequence is designed for broad reactions to specific antibodies produced from the different serotypes of dengue infection. Potential applications for Dengue-HRP include indirect ELISA for the detection of dengue IgG or MAC ELISA for the detection of dengue IgM.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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