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# ImmunO™

Horseradish Peroxidase  
(RZ >3.0)

Catalog #: 36451

Lot #: QR11808

**Form:** A brown to red brown color, salt-free, freeze-dried powder.

**Assay Method,1:** The method of assay is based on that of Bergmeyer<sup>1</sup>, in which the rate of decomposition of hydrogen peroxide by peroxidase with guaiacol as hydrogen donor is determined spectrophotometrically by measuring the rate of color development at 436nm.

**Unit Definition,1:** That amount of enzyme which catalyzes the conversion of 1/μmole peroxide per minute at 25°C.

**Assay Method,2:** The method of assay in which the rate of decomposition of hydrogen peroxide by peroxidase with pyrogallol as the hydrogen donor is determined spectrophotometrically by measuring the rate of color development at 420 nm.

**Unit Definition,2:** That amount of enzyme which catalyses the production of one milligram of purpurogallin in 20 seconds at 20°C. at a pH of 6.0.

**Activity:** 255 u/mg material

**Purity:**  $A_{403}/A_{275} = 3.14$  (RZ)

**Storage:** Best stored at -20°C. Once opened, redessicate over silica gel under vacuum before returning to -20°C.

**Expiration Date:** 10/31/2016

**Reference:** 1. Bergmeyer, H.U., **Methods of Enzymatic Analysis** 1, 495, 2nd. ed., (1974).

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3. Modification of the Method of Sumner, J.B. and Gjessing, E.C., **Arch. Biochem.**, 2, 1291, (1943).

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Control #