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## Product Data Sheet

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Product Name: Avidin Biotin

Cat. No.: GP22813

Batch No.: 1

### Product Data

Purity >98%

Source

Physical Appearance

solid

Shipping Condition

Shipped at Room temp.

Synonyms Avidin; AVD; AVID.

Solubility We highly recommended to prepare a 1 mg/ml solution; Reconstitute using cold deionized pyrogen free water and mix gently until powder is completely dissolved.

Formulation Salt-free lyophilized powder with no preservative added.

### Biological Activity

Binding activity of Avidin-Biotin is 10-15units/mg protein. One unit of Avidin activity is defined as the amount of protein which will bind 1 $\mu$ g d-biotin.

### Stability

Store protein solution at 2-8°C .

### Background

Avidin is a basic charged glycoprotein present in the egg white and in some extent in tissues of various animals. Avidin is a homotetrameric protein that contains 4 identical subunits which bind to Biotin with high extent of affinity and specificity consisting of 128 amino acids and has a molecular mass of about 67K Daltons. Avidin-Biotin is a modified form of affinity purified avidin that combines the high affinity specific activity of the native egg white avidin to biotin molecule together with a very low background of the streptavidin produced by the bacteria *Streptomyces avidinii*.

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

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