

PRODUCT DATA SHEET**Pierce® Streptavidin, Horseradish
Peroxidase Conjugated****Product Number:** 21127**Lot Number:** YE372942**Product Description:** Streptavidin, horseradish peroxidase conjugated**Form:** Lyophilized powder**Package Size:** 5 mg**Buffer Composition after Restoration:** At approximately 5mg/ml 0.01M sodium phosphate, 0.15M sodium chloride, pH 6.8**HRP Activity:** 188 U/mg protein; one unit is defined as the amount of protein required to form 1.0 μ mole of purpurogallin from pyrogallin in 20 seconds at 20°C in the following solution: 8 mM hydrogen peroxide, 14 mM potassium phosphate, 0.5% pyrogallol, pH 6.0.**Streptavidin Activity:** 7 μ g Biotin bound/mg protein**Molar Ratio:** 2 moles HRP/mole Streptavidin**Suggested Working Concentration for Colorimetric Detection:** 1-10 μ g/ml for immunohistochemical staining; 2 μ g/ml for immunoblotting; 0.1 μ g/ml for enzyme immunoassays.**Suggested Working Dilution of 1 mg/ml stock for Western Blotting with SuperSignal® West Substrates:**

SuperSignal® West Pico Substrate 1:20,000 - 1:100,000

SuperSignal® West Dura Substrate 1:50,000 - 1:250,000

SuperSignal® West Femto Substrate 1:100,000 - 1:500,000

NOTE: Do not use skim milk as a blocking agent in the assay with streptavidin, since skim milk contains free biotin which will cause high backgrounds.**Reconstitution and Storage:** Store product at -20°C until opened. Reconstitute in 1-5 ml of distilled water or buffer of your choice. For long-term storage, freeze undiluted product in small aliquots. Avoid repeated freezing and thawing.

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Pierce Biotechnology

(800) 874-3723 tel

(815) 968-7316 fax

3747 N. Meridian Road

(815) 968-0747 tel

www.thermoscientific.com/pierce

Rockford, IL 61101 USA