

## Biotinylated *Acarus siro* Extract

Catalog # 3103

*For Research Use Only - Not Human or Therapeutic Use*

DESCRIPTION:	<p>Biotinylated <i>Acarus siro</i> (AS) extract</p> <p>Storage mites such as <i>Acarus siro</i> are commonly found in stored foods such as grain, flour, and hay (1). They are known to cause symptoms such as bronchial asthma, allergic rhinitis, and conjunctivitis, particularly in rural work environments. These mites thrive in warm, humid conditions (2).</p> <p>NOTE: AS extract has a unique composition depending on the raw mite materials. The reactivity of this product may differ from batch to batch.</p>
APPLICATION:	<p>Use to detect anti-AS antibodies as well as to study the localization and metabolism of AS. Chondrex, Inc. recommends pairing biotinylated AS with a streptavidin conjugated probe (enzyme or fluorochrome)</p>
QUANTITY:	<p>0.1 mg protein (Bradford Assay)</p>
FORM:	<p>Lyophilized powder</p>
SOLUBILITY:	<p>Dissolve in distilled water, phosphate buffered saline pH 7.4, or an equivalent buffer</p>
STORAGE:	<p>-20°C</p>
STABILITY:	<p>2 years</p>
NOTES:	<p>N/A</p>
REFERENCES:	<p>M. Dhooria, "Mite Problems of Stored Foods" in <i>Fundamentals of Applied Acarology</i>. (Springer, Singapore, 2016), pp. 349-362.</p> <p>C. Luczynska, P. Griffin, R. Davies, M. Topping, Prevalence of specific IgE to storage mites (<i>A. siro</i>, <i>L. destructor</i> and <i>T. longior</i>) in an urban population and crossreactivity with the house dust mite (<i>D. pteronyssinus</i>). <i>Clin Exp Allergy</i> <b>20</b>(4), 403-6 (1990).</p>