



Measurement of Protein Digestibility: Animal-Safe Accurate Protein Quality Score



As food manufacturers seek alternative protein sources, Megazyme is proud to present the **world's first assay kit** for measurement of protein quality.

Our **Protein Digestibility Assay Kit (K-PDCAAS)** is based on the patented **ASAP-Quality Score** developed by our partners at Medallion Labs.



Measuring Protein Digestibility for PDCAAS

PDCAAS (Protein Digestibility Corrected Amino Acid Score) is the industry standard for reporting of protein content in feed and foodstuffs. There are **three key parameters** used to measure a sample's PDCAAS.

<p>1. Amino Acid Analysis</p> <p>Typically out by an analytical laboratory (\$800-900 per test)</p>	<p>2. Total Protein</p> <p>Dumas or Kjeldahl test by an analytical laboratory (~ \$200 per test)</p>
<p>3. Protein Digestibility</p> <p>The ASAP-quality score method used in our PDCAAS Assay Kit offers the following advantages over traditional rat-based animal studies:</p> <ul style="list-style-type: none"> • rapid turnaround of results (same-day vs 2-3 months) • significantly more cost-effective per test (\$ 6.40 vs \$ 5,000) • ethical testing method: ASAP completely eliminates the need for an animal study, meaning no animals are used and later sacrificed as part of the method <p>Notably, K-PDCAAS obtains protein quality score values that are consistent with results obtained from animal studies.</p>	



Historically, protein quality score has been the most labour-intensive and costly element of digestibility analysis. Using Medallion's Animal-Safe Accurate Protein (ASAP) method, Megazyme's new assay kit is set to revolutionise measurement of protein quality scores.

Item Code	Product Name	No. Assays	Price per Assay
K-PDCAAS	Protein Digestibility Assay Kit (ASAP-Quality Score Method)	50	€ 5.20 / \$ 6.40



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