



## Case Study

# Stability Through Excipient Compatibility Testing

**The Challenge** A customer came to Patheon with a new molecule that's chemical structure indicated potential for oxidative degradation and hydrolysis. Their goal was to develop a solid oral dosage form that overcame these stability issues.

**The Solution** To determine the level of degradation caused by specific excipients, Patheon conducted binary testing of dry and wet mixtures of API and multiple excipients. By employing accelerated conditions, this method of excipient compatibility testing allowed us to evaluate potency and impurities over a 1-3 month period.

**The Outcome** Patheon identified excipients not prone to degradation and incorporated antioxidants to further prevent degradation. With this data, we were able to focus efforts on a formulation with maximum stability.

