

COMPLETED PROJECT REPORT

Project Title: HPLC validation method for Diphacinone.

Research Agency: HACCO Inc.

Principal Investigator: Douglas

Budget: \$24,000.00

Summary:

The purpose of this study is to validate an HPLC method to analyze for diphacinone in Rodent Bait Diphacinone Treated Grain 0.005%. The method will then be used to analyze a batch of this product for use in a 1-year storage stability study. The product will be analyzed at initial, and after approximately 1 year of storage. Corrosion characteristics will also be determined.

Storage stability and corrosion characteristics are important for product characterization. The behavior of a product over time can be indicated by observing changes in its physical and chemical properties.

Under normal warehouse conditions, changes in the test product's physical and chemical properties are examined. The active ingredient is measured using an appropriate analytical method at initial and subsequent sampling periods. A change in the amount of active ingredient indicates storage instability and other analyses would need to be performed to determine degradation products. Changes in physical properties such as physical state, color, and homogeneity are also a measure of storage instability.

December 2000: The following is from a CDFA memorandum: HACCO has not been able to complete work scheduled for the 99/00 FY due to the inability of CDFA to provide the contractor with acceptable test materials. The work and funding will be moved to FY 00/01.

March 2002: This project was canceled but was started anew as contract #01-0505.

Last Updated:

02/23/09