



Phone: 800-622-4342 Sales Email: info@agdia.com Technical Email: techsupport@agdia.com

Test Characteristics

Test Name InvictDetect Capture Antibody Monoclonal (Mouse) Catalog Number 49700 **Detection Antibody** Monoclonal (Mouse) Acronym InvictDetect

Format Lateral Flow Device

Diluents AEB2

Sample Dilution 5 ants: 100 µL AEB2

Summary

The InvictDetect ImmunoStrip is used to identify the red imported fire ant (RIFA), Solenopsis invicta, by detection of the Soli2 protein. RIFA is reponsible for billions of dollars of damage, annually, to the agricultural industry. More importantly, it poses a safety risk to human and animal health. InvictDetect takes the guesswork out of identification because it is 100% specific to the soli2 protein found in RIFA venom. The protocol is simple to follow and provides the user with results in only 10 minutes. The test is appropriate for testing a pooled sample containing five (5) worker ants. This protocol is not intended for individual ant testing. ImmunoStrips are the perfect screening tool for use in the field, greenhouse, and the lab.

Analytical Sensitivity

Limit of Detection: 0.625 µg/mL of purified Soli2 protein

Diagnostic Sensitivity and Specificity

True Positives 180 True Negatives 150 Total Samples 330 Correct Diagnoses 180 Correct Diagnoses 150 Correct Diagnoses 330 Percent 100% Percent 100% Number of Operators 5 Number of Lots 3 Percent 100%

Selectivity:

No Matrix Effect Observed With:			
Camponotus spp.	Dorymyrmex bureni	Linepithema humile	Monomorium floricola
Nylanderia fulva	Tetramorium spp.	Trachymyrmex septentrionalis	

Analytical Specificity

Inclusivity and Exclusivity:

Proteins Detected:

Soli2 (Solenopsis invicta ants)	
---------------------------------	--

Does Not Cross-react With:

Solr2 (Solenopsis richteri ants)	
----------------------------------	--

ImmunoStrip® is a registered trademark of Agdia, Inc. InvictDetect™ is a trademark of Agdia, Inc.

p334 Revised:12/09/2022 Page 1 of 1