

Tech Note: Protocol Change and Product Improvement

PSA/SRA 87601 • *Alfalfa mosaic virus* (AMV) ELISA

Technical Note

We have recently updated the test protocols and antibodies for *Alfalfa mosaic virus* (AMV). These updates have resulted in the following improvements outlined below. Please visit the product webpage for the [validation report](#). Previous antibodies and components are not interchangeable with the new version.

Changeover Guide

Do not use previous test components with the new test components.

Item	Previous Protocol	New Protocol
Test Format	Compound-ELISA	DAS-ELISA
PathoScreen® Kit User Guide	m268.3	m455
Reagent Set User Guide	m266.3	m454
Capture Antibody	01017 and below	01018 and above
Detection Antibody	01254 and below	Not used in current assay
Enzyme Conjugate	01254 and below	01255 and above
Coated Plates	00081 and below	00082 and above
Enzyme Conjugate Diluent	RUB6	ECI
Validation Report Number	p289	p333

For answers to your technical questions, please contact us at techsupport@agdia.com.

Performance comparison: Analytical Sensitivity and Specificity

Agdia's new version of the AMV ELISA has greater analytical sensitivity compared with the previous version of the assay. Optical density (O.D.) values for analytical sensitivity and specificity testing shown in Table 1 represent the average of three replicates run per sample, per vendor. Each test was run per the vendor's documented protocol. For example, Agdia's ELISA was run per Agdia protocol with Agdia buffers.

Table 1: AMV analytical sensitivity and specificity comparison between AMV ELISA tests

Sample	Dilution	Agdia NEW ELISA O.D.	Agdia Previous ELISA O.D.	Vendor A ELISA O.D.	Vendor B ELISA O.D.	Vendor C ELISA O.D.	Vendor D ELISA O.D.	Vendor E ELISA O.D.
AMV-Nevq (Argentina)	1:1K	3.903	1.548	1.035	0.370	2.989	0.879	3.868
	1:10K	3.894	1.333	0.722	0.226	2.362	0.861	1.758
	1:100K	2.257	0.459	0.262	0.150	0.594	0.764	0.707
	1:500K	0.442	0.150	0.143	0.123	0.576	0.397	0.273
	1:1M	0.318	0.129	0.121	0.118	0.568	0.296	0.230
	1:5M	0.120	0.106	0.097	0.116	0.608	0.169	0.140
AMV Sample 2	1:20	3.423	1.112	0.550	0.207	3.419	1.502	2.956
Healthy Sample 1		0.082	0.097	0.087	0.113	0.959	0.142	0.125
Healthy Sample 2		0.079	0.093	0.082	0.115	0.176	0.131	0.113
Healthy Sample 3		0.085	0.099	0.088	0.122	0.200	0.230	0.134
Healthy Sample 4		0.081	0.098	0.084	0.113	0.181	0.140	0.129
Healthy Sample 5		0.081	0.097	0.095	0.114	0.191	0.144	0.129
Healthy Sample 6		0.079	0.098	0.088	0.121	0.197	0.161	0.115
Vendor Positive Control		3.915	1.757	3.702	0.791	3.135	2.515	3.897
Vendor Extraction Buffer		0.078	0.097	0.083	0.111	0.572	0.132	0.107



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