



## Technical Note and Alert

Agdia is happy to announce the launch of a new rapid, field deployable RNA-based assay for detection of Blueberry scorch virus (BISCv). The new test outperforms all commercially available serological (ELISA) tests and matches the performance of the most well-established PCR methods in use today.

## Performance comparison: Diagnostic Sensitivity and Specificity

Agdia's BISCv AmplifyRP XRT has greater diagnostic sensitivity compared with commercially available ELISAs and comparable sensitivity with published PCR methods. Optical density (O.D.) values and binary determinations for diagnostic 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 except where noted. For example, Agdia's AmplifyRP XRT was run per Agdia protocol with Agdia buffers.

**Table 1:** BISCv diagnostic sensitivity and specificity method comparison

Sample	Agdia NEW AmplifyRP XRT	BISCv PCR <sup>1</sup>	Vendor A ELISA O.D.	Vendor B ELISA O.D.
Positive Sample 1	Positive	Positive	0.110	0.132
Positive Sample 2	Positive	Positive	0.108	0.113
Positive Sample 3	Positive	Positive	Not Tested	Not Tested
Positive Sample 4	Positive	Positive	Not Tested	Not Tested
Positive Sample 5	Positive	Positive	Not Tested	Not Tested
Positive Sample 6	Positive	Positive	Not Tested	Not Tested
Healthy Sample 1	Negative	Negative	0.108	0.136
Healthy Sample 2	Negative	Negative	0.112	0.132
Healthy Sample 3	Negative	Negative	0.110	0.117
Healthy Sample 4	Negative	Negative	0.111	0.115
Healthy Sample 5	Negative	Negative	Not Tested	Not Tested
Healthy Sample 6	Negative	Negative	Not Tested	Not Tested
Positive Control	Positive	Positive	3.679	1.206 <sup>2</sup>
Extraction Buffer	Negative	Negative	0.115	0.114

<sup>1</sup>PCR protocol from Kalinowska *et al.* 2015.  
<sup>2</sup>Vendor A's positive control used in Vendor B's ELISA.

For answers to your technical questions, please contact us at [techsupport@agdia.com](mailto:techsupport@agdia.com).

## References

Kalinowska, E., Marsella-Herrick, P. & Fuchs, M. Genetic variability of blueberry scorch virus isolates from highbush blueberry in New York State. *Arch Virol* 160, 1537–1542 (2015). <https://doi.org/10.1007/s00705-015-2402-6>.

## Questions or Technical Support:

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AmplifyRP Test Kits employ recombinase polymerase amplification (RPA) technology, developed by TwistDx Limited, U.K. Use of the RPA process and probe technologies are protected by US patents 7,270,981 B2, 7,399,590 B2, 7,435,561 B2, 7,485,428 B2 and foreign equivalents in addition to pending patents.

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