

Tech Note: Protocol Change and Product Improvement

PSA/SRA 20001 • *Potato virus Y* (PVY) ELISA

Technical Note

We have recently updated the test protocols and antibodies for *Potato virus Y* (PVY). 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 | Compound-ELISA |
| PathoScreen® Kit User Guide | m285.1 | m20.7 |
| Reagent Set User Guide | m286.1 | m12.5 |
| Capture Antibody | 00981 and below | 00982 and above |
| Detection Antibody | 03582 and below | 03583 and above |
| Enzyme Conjugate | 03582 and below | 03583 and above |
| Coated Plates | 00223 and below | 00224 and above |
| Enzyme Conjugate Diluent | ECM | ECI |
| Validation Report Number | p122 | p359 |

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 PVY ELISA has greater analytical sensitivity compared with the previous version. Optical density (O.D.) values shown in Table 1 represent the average of three replicates run per sample.

Table 1: Data comparison between Agdia's previous and new PVY ELISA tests.

| Sample | Dilution | Agdia NEW ELISA O.D. | Agdia Previous ELISA O.D. |
|--|----------|----------------------|---------------------------|
| PVY-N1 (PVY ^{N-Wi}) | 1:100 | 3.537 | 2.380 |
| | 1:10K | 0.312 | 0.157 |
| PVY-HR1 (PVY ^Z) (PVY ^{NTN}) | 1:500 | 3.846 | 3.379 |
| | 1:50K | 0.581 | 0.184 |
| PVY-Poha6 (PVY ^C) (PVY ^{C-Poha}) | 1:500 | 1.512 | 0.826 |
| | 1:5000 | 0.372 | 0.187 |
| PVY-HI-14 (PVY ^C) | 1:10 | 3.850 | 3.371 |
| PVY-Mont (PVY ^N) | 1:10 | 3.835 | 1.702 |
| Healthy Sample 1 | | 0.096 | 0.137 |
| Healthy Sample 2 | | 0.094 | 0.105 |
| Healthy Sample 3 | | 0.092 | 0.102 |
| Positive Control | | 3.795 | 3.576 |
| Extraction Buffer | | 0.090 | 0.106 |



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