



# VARICELLA-ZOSTER IgG VIRCLIA® versus VIDAS®

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## Introduction

VirClia® Monotest is a new diagnostic system developed and commercialized by Vircell for the detection of antibodies against infectious diseases. This automated system combines chemiluminescence technology and monotest format offering several advantages such as standardization and simplicity, shorter incubation times, high levels of sensitivity and specificity, versatility and accuracy.

## Methods

A retrospective comparison was performed on routine serum samples (n = 96) which were with both the BioMérieux VIDAS® Varicella-Zoster IgG and the VirClia® IgG Monotest. Discrepancies found (n = 23) were retested using the SERION ELISA classic Varicella-Zoster virus IgG.

## Results

The positive results (n = 65) obtained with the VIDAS® were all confirmed with the VirClia® IgG Monotest.

Two equivocal results obtained with the VIDAS® IgG were found positive in both Varicella-Zoster VirClia® IgG Monotest and the SERION ELISA classic Varicella-Zoster IgG.

From the negative results (n = 29) obtained with the VIDAS® only 27,59% were confirmed as negative result with the VirClia® IgG Monotest (table 1).



Table 1. VIDAS® negative results (29) vs. VIRCLIA® and SERION

	VIRCLIA®	SERION
Positive	20	17 positive, 3 equivocal
Negative	8	Not done
Equivocal	1	1
Total	29	

## Discussion

Our intend was to compare our existing platform for VZV IgG (VIDAS®) with Virclia®. To our surprise we found a lot of discrepancies with the negative VIDAS® results. This has also been found by Maple et al. (JCV 2009 vol. 44 9-14). As we had no good gold standard available we used as a proxy the Serion ELISA for the discrepancy analysis. The Serion test has been shown to have a good sensitivity of 99% and somewhat lesser specificity of 89% (Sauerbrei et al. CVI 2012 vol. 19 1261-8). Almost all positive VirClia results were confirmed with the Serion IgG test.

## Conclusions

- The sensitivity of the Varicella-Zoster VirClia® IgG Monotest is better than the sensitivity of the BioMérieux VIDAS® Varicella-Zoster IgG.
- The Varicella-Zoster VirClia® IgG Monotest is an high quality easy to use assay.

