

# R-Biopharm RIDASCREEN® Helicobacter and Generic Assays Helicobacter pylori compared to OXIOD Amplified IDEIA Hp StAR™



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## Introduction

The RIDASCREEN® Helicobacter is a qualitative ELISA for the detection of *Helicobacter pylori*-specific antigen in human stool samples, which has been recently launched by R-Biopharm. The RIDASCREEN® Helicobacter is intended for initial diagnosis, therapy control and re-occurrence detection.

In accordance to the current guidelines, the RIDASCREEN® Helicobacter is based on monoclonal antibodies to avoid fluctuations between individual lots. The included ready-to-use reagents of the RIDASCREEN® Helicobacter are suitable for the direct application in fully automated ELISA systems.

## Methods

A prospective (n = 50) and a retrospective (n = 26) comparison was performed on routine stool samples using the OXIOD Amplified IDEIA Hp StAR™, the R-Biopharm RIDASCREEN® Helicobacter and the Generic Assays Helicobacter pylori Antigen.

In the retrospective comparison the samples were primarily tested with the OXIOD Amplified IDEIA Hp StAR™.

The dilution of the stool samples was performed manually, all other steps of the R-Biopharm RIDASCREEN® Helicobacter and the Generic Assays Helicobacter pylori Antigen were performed fully automated using the DSX. In addition to the diluting of the stool samples the execution of the OXIOD Amplified IDEIA Hp StAR™ included some manual steps before the DSX was used to finish to assay.

## Results

From the positive results (n = 40) obtained with the OXIOD Amplified IDEIA Hp StAR™ 90% were confirmed with the R-Biopharm RIDASCREEN® Helicobacter and 87,5% were confirmed with the Generic Assays Helicobacter pylori Antigen.

All discrepancies (n = 4) between the OXIOD Amplified IDEIA Hp StAR™ and the R-Biopharm RIDASCREEN® Helicobacter were also negative with the Generic Assays Helicobacter pylori Antigen (table 1).

The negative results (n = 36) obtained with the OXIOD Amplified IDEIA Hp StAR™ were all confirmed with the R-Biopharm RIDASCREEN® Helicobacter and the Generic Assays Helicobacter pylori Antigen.

Table 1. OXIOD Amplified IDEIA Hp StAR™ 40 positive results

	R-Biopharm RIDASCREEN® Helicobacter	Generic Assays Helicobacter pylori Antigen
Positive	36	35
Negative	4	5
Total	40	40



## Discussion

We compared our existing routine method for *Helicobacter* antigen detection in feces (OXIOD Amplified IDEIA Hp StAR™) with other less expensive and easier to automate methods (R-Biopharm RIDASCREEN® Helicobacter and Generic Assays Helicobacter pylori Antigen).

## Conclusions

- The R-Biopharm RIDASCREEN® Helicobacter and the Generic Assays Helicobacter pylori Antigen are high quality assays for the detection of *Helicobacter* antigen in feces.
- The R-Biopharm RIDASCREEN® Helicobacter and the Generic Assays Helicobacter pylori Antigen are assays that, with the exception of diluting the stool samples, can easily be fully automate using the DSX.
- We have implemented the R-Biopharm RIDASCREEN® Helicobacter in our routine to replace the OXIOD Amplified IDEIA Hp StAR™.

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