# Methods and Compositions to Detect Nucleic Acid

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## Technology description

## Summary

This technology involves the isolation and identification of Helicobacter within fecal matter. The technology provides for the methods and nucleic acid primer reagents and sequences specific for H. pylori . Specifically, it addresses the identification of the common human species of H. pylori . H. pylori is a major infectious agent of the human gastric intestinal tract, affecting about 50% of the world population with various degrees of severity. H. pylori infection is associated with 95% of duodenal ulcers and 80% of gastric ulcers. Without treatment, 80% of duodenal ulcers will return. Further, gastric ulcers have been linked as precursors to the more life-threatening gastric cancers.
Current diagnostics are expensive, invasive, or require the patient to ingest radioactive substances.

## Advantages

The technology presented provides for a quick, specific, inexpensive, non-invasive method for diagnosis of H. pylori infection as well the ability to repeat such tests for patient follow up on treatment effectiveness. Also included is the ability to develop kits for commercial purposes.

## Institution

NIH - National Institutes of Health

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