

# AUTOZYME™ IFAB

## Anti-Intrinsic Factor Antibodies Assay

- **Sensitivity** - detects Type I (blocking) and Type II (binding) antibodies
- **Flexibility** - kit can be run on manually or on an automated system
- **Reproducibility** - reliable assessment of patient antibody status
- **Practicality** - “break a well” strips allows economic use
- **Ready to use** - colour coded reagents
- **Specificity** - use of high purity porcine intrinsic factor antigen

### • Indication

The AUTOZYME™ IFAB assay has been designed for the qualitative detection of antibodies to Intrinsic Factor in human plasma or serum. The assay method detects type I and type II auto-antibodies and are unaffected by the presence of high endogenous vitamin B12 levels.

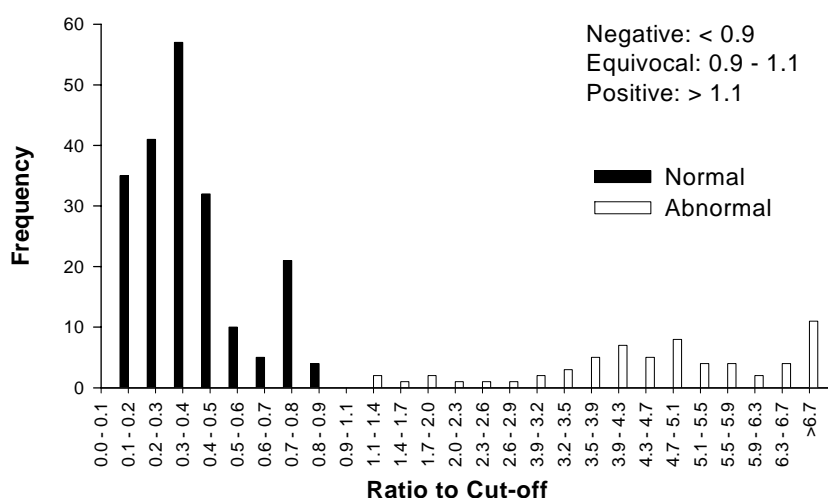
### • Summary and explanation of test

Pernicious anaemia is characterised by a gastric mucosal defect that decreases the synthesis of intrinsic factor. Since this glycoprotein plays an essential role in the transport and absorption of vitamin B12 across the small intestine, patients affected by pernicious anaemia show severe decreases in serum vitamin B12 levels. The presence of auto-antibodies against gastric parietal cell cytoplasm, thyroid components and intrinsic factor, strongly suggest an auto-immune process to the disease.

Detection of anti-intrinsic factor antibodies provides an important contribution to the differential diagnosis of pernicious anaemia (due to intrinsic factor deficiency) and other causes of vitamin B12 malabsorption. Indeed, other tests such as the cytomorphology of red blood cells, determination of serum vitamin B12 levels or the Schilling test are not specific enough for the diagnosis of a Biermer's anaemia.

Two types of anti-intrinsic factor auto-antibodies have been described. The blocking auto-antibodies (type I) hinder the binding of vitamin B12 complexes. Such antibodies are frequently encountered in patients affected by pernicious anaemia. Binding auto-antibodies (type II) that bind to the intrinsic factor as well to the IF/vitamin B12 complexes, and preventing their absorption, have also been described.

### • Reference ranges



- **Related Products:** AUTOZYME™ ACL, ENA, RF, nDNA, TAB
- **Instructions for use & Safety data sheets available on-line at:** <http://www.clsdiagnostics.com/downloads/>

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## Anti-Intrinsic Factor Antibodies Assay

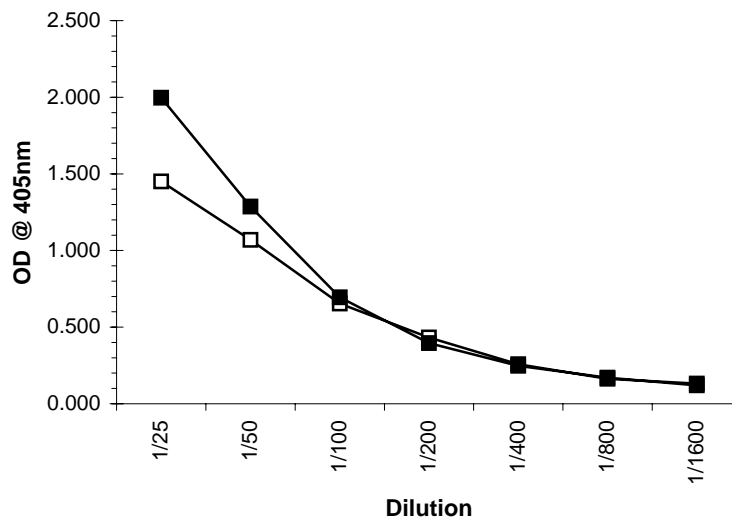
Catalogue No. Z4396



### Precision

Intra-assay precision (n = 20)		Inter-assay precision (n = 5)	
Mean (OD)	CV (%)	Mean (OD)	CV (%)
0.072	5.4	0.087	12.7
1.428	2.6	1.268	5.7
0.133	3.8	0.100	10.2
0.319	7.4	0.306	5.7

### Linearity



### Interfering analytes

No significant interference outside of the usual precision of the assay was detected with the following potential interferents:

Bilirubin	500 mg/L
Haemoglobin	5 g/L
Ascorbic acid	2 g/L
Lipids	10%

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### Test procedure

