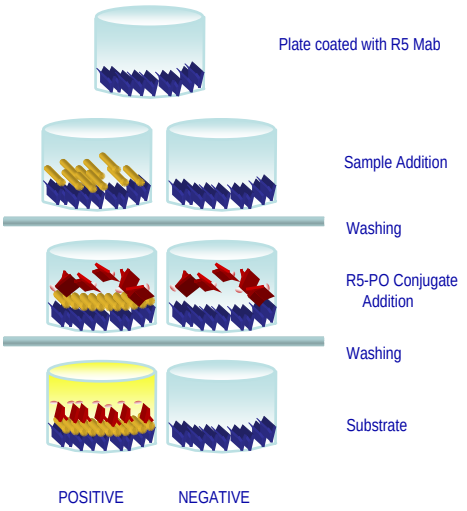
INGENASA

INGEZIM GLUTEN

R.30.GLU.K2

Ingezim gluten is an immunoenzymatic assay which uses the R5 monoclonal antibody specific of Prolamins. **Limit of Detection: 3 ppm.**



TECHNICAL BASIS OF THE KIT

1. Plates are supplied coated with a **monoclonal antibody (MAb) specific for Gliadin, Secalin and Hordein**. Samples are added to the wells and incubated.
2. If the sample contains the antigen, it will bind to the antibody specific for Gliadin coating the plates.
3. When MAb-PO specific of Gliadin is added, it will bind to the antigen of the sample.
4. Binding is detected by a colorimetric reaction after the addition of the substrate

APLICATION

The test has been designed for samples with a content of Gluten between 0 – 300 ppm

Assay endorsed by the CODEX Alimentarius as Type I Method for the determination of gluten in food samples

EVALUATED BY THE "FOOD SAFETY SPANISH AGENCY"

SENSITIVITY

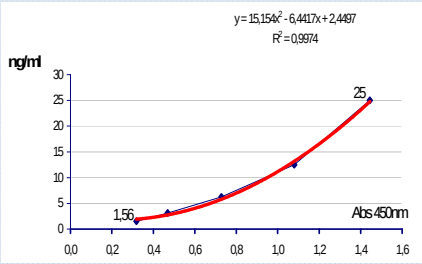
1-Using the European Standard.

Five different dilutions of the European standard were made. The results obtained showed that the assay was able to detect **1,56ng/ml** of this standard. This value corresponds to an amount of **3ppm** of gluten in foods according to the next formula and supposing a sample dilution of 1/25.

ppm = (C x D x 2 x 40) /1000

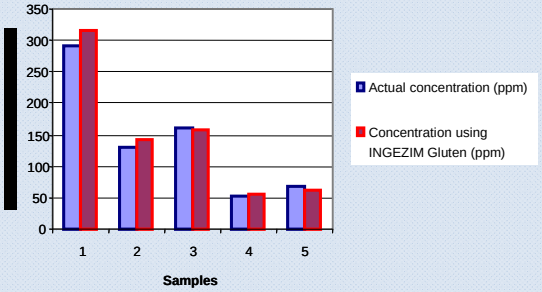
C: Concentration of the sample calculated from the calibration curve in ng/ml.
D: Dilution factor of the sample (25, 50, 100, etc)
2: Factor applied to express the results in gluten concentration
40: Dilution factor applied in the sample preparation (0,25g in 10 ml of extraction buffer).
1000: Conversion from ng/ml to ppm

Regression curve



2- Evaluation of the assay using controlled samples of food.

Five samples of bread with predetermined amounts of gluten (ppm) were used. The results obtained are showed below



SPECIFICITY

The specificity of the MAb used in the assay was determined by the immunoblotting technique. The MAb is able to detect specifically the prolamins of gluten present in WHEAT, RYE and BARLEY (gliadin, secalin and hordein respectively).

COMPOSICIÓN DEL KIT

- Microtritation plate of 96 well
- Vial with Positive Control
- Vial with Negative Control
- Control Point
- European Gliadin Standards (5)
- Vial with PO-Conjugate
- Bottle with Washing Solution
- Bottle with diluent
- Bottle with substrate (TMB) ready to use
- Bottle with stop solution
- Bottle with Extraction Solution

PRODUCT MANUFACTURED BY INGENASA

ISO 14001:2004 ISO 9001:2008

SELF LIFE:	12 months Stored at 4ºC

Biomedal DIAGNOSTICS
Biomedal, S.L. | Avda. Américo Vespucio, 5-4, Planta 1ª, Mód. 12 | 41092 Sevilla, España (Spain)
Tel.: +34 954 08 12 76 | Fax: +34 954 08 12 79 | info@biomedal.com | www.biomedal.com