



# Allergen Shield

## Soy

### ELISA TEST | In vitro analysis

for the quantitative determination of soy residues in food

ProGnosis Biotech S.A. is ISO 9001:2015 certified by TÜV Hellas (TÜV NORD).

**Use only the current version of Product Data Sheet enclosed with the kit.**

Allergen-Shield Soy, A1848/A1896, is an immunoassay method that determines soy residues in food products labeled as soy-free. The ELISA kit contains all reagents required for the immunoassay method. The ELISA test is adequate for 96/48 definitions (standards are included). A spectrophotometer for microtiter ELISA plate is required.

#### **Matrices:**

Bakery products, Beverages, Butter, Cake, Cereals, Chocolate, Cookies, Crackers, Granola/power bars, Ice cream, Margarine, Salad dressings, Sausages, Sauces, Soup and Spices

- Sample preparation: extraction
- Test time (incubation time after samples and reagents preparation): 30 min
- Standard curve range: 0 - 25 ppm
- Shelf life: 12 months
- Storage: 2-8°C



**10.8** Aspirate the liquid as described above and add **100 µL** per well of **TMB Substrate** (pour 1mL per 8 wells in a reservoir). Cover the microwells with the sealing film, shaking the plate manually for a few seconds and incubate in the dark at room temperature for **10 min**.

**10.9** Remove the sealing film and add **100 µL** per well of the **Stop Solution** to each well (pour 1 mL per 8 wells in a reservoir). Mix gently by shaking manually.

**10.10 Measure the absorbance at 450 nm.** Read the absorbance value of each well (within 60 minutes after the step 10.8) on a spectrophotometer using 450 nm as the primary wavelength and optionally 620 nm as the reference wave length (610 nm to 650 nm is acceptable).

## 11. Data Analysis

### • Automatically

An assigned software, the **Prognosis-Data-Reader**, is available for free (contact: info@prognosis-biotech.com) download to evaluate the Allergen-Shield Soy ELISA kit. The evaluation is carried out by a simple transfer of data values after the measurement.

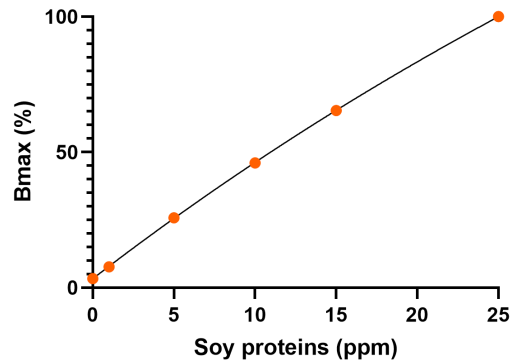
### • Manually

Calculate the average absorbance values for each set of duplicate standards and samples. Ideally, duplicates should be within 10% of the mean. Use the following calculation:

$$\frac{\text{Standard or sample absorbance}}{\text{Standard 6 absorbance}} \times 100 = \% \text{ Binding}$$

The soy content in each sample is determined by extrapolating OD values against the soy content of standard solutions using a fifth order polynomial standard curve.

## 12. Example of Standard Curve (0 - 25ppm)



## 13. Performance Evaluation

### 13.1 Reference Materials

Several reference materials are being used for the evaluation of each product of ProGnosis Biotech S.A. in the context of Quality Control performed by the Quality Control Department. Please request a validation report, including the results, at info@prognosis-biotech.com.

### 13.2 Proficiency Tests

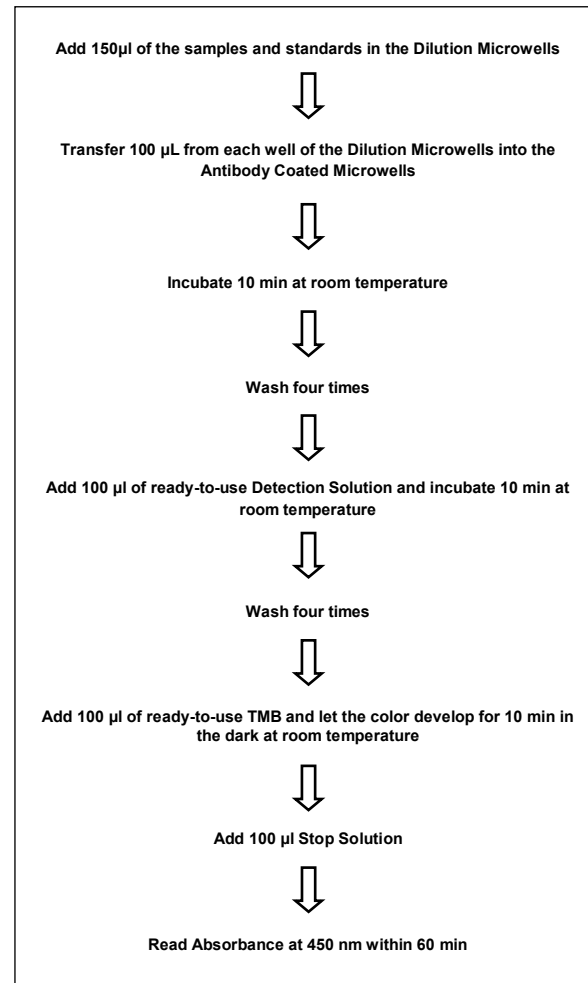
All products participate frequently in Proficiency Tests. For more information, visit the individual product page on our website: [www.prognosis-biotech.com](http://www.prognosis-biotech.com)

## 14. Assay Claims

- Samples showing negative results may contain Soy below the limit of detection of the assay. This ELISA kit does not claim that food is safe for consumption based upon a determination of soy content. Matrix effects may also affect the result of the method.
- The recovery/cross reactivity of the method might be affected when analyzing processed food (e.g. heat treatment, dehydration, etc.), because proteins may be altered or fragmented.
- The protein content and the protein composition may differ among various species of the same matrix. Therefore, different varieties may produce different results.
- Test results are expressed as ppm soy proteins. Soyflour contains around 39% protein. To express results as ppm soyflour, multiply the result by 2.56 (e.g., 1 ppm soy proteins x 2.56 = 2.56 ppm soyflour).

## 15. Method Summary

Total procedure time (after samples and reagents preparation): 30 min.



All immune assays supplied by ProGnosis Biotech S.A., are warranted to meet or exceed our published specification when used under normal conditions in your laboratory. If the product fails during the stated period, a replacement product will be issued.

ProGnosis Biotech S.A. makes no warranty of any kind, either expressed or implied, except that the materials from which its products are made are of standard quality. There is no warranty of merchantability of this product, or of the fitness of the product for any purpose. ProGnosis Biotech S.A. shall not be liable for any damages, including special or consequential damage, or expense arising directly or indirectly from the use of this product. This method is considered to be a screening method, before a legal action, samples detected as positives must be confirmed with a confirmation method. This product is meant to be used only For Research or Manufacturing use and by qualified technicians.



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