Why test for Food Allergens?

- Brand Name Protection
- Prevent Costly Product Recalls
- Ensure Consumer Confidence
- Duty of Care
- Comply with Product Labelling Requirements.

Allergens may occur unintentionally in foods for several reasons including:

- Cross-contamination of ingredients
- Food preparation errors
- Improper cleaning of equipment

Kits available:
- Almond, Buckwheat, Beta-Lactoglobulin, Casein, Crustacean, Egg, Gliadin, Hazelnut, Lupin, Mustard, Peanut, Sesame, Soy

How the ELISA SYSTEMS Sesame Seed Protein Residue test works:

**Step 1**
Sample is added

The test sample is added and if Sesame Seed residue (2S-albumin) is present, it will bind to the specific antibodies.

**Steps 2 and 3**
Antigen-Antibody Complex

Biotin-labelled conjugate is added and binds to the captured sesame seed residue. Enzyme-labelled Streptavidin then completes the “Sandwich”.

**Step 4**
Coloured End-Point

TMB Substrate is added, which is converted in the presence of the Enzyme Conjugate to form a blue colour if Sesame Seed residue is present in the sample. A yellow colour is formed once Acid is added to stop the reaction.

Total test time is approximately 65 minutes on extracted samples. (Incubation times of 15, 15, 15 and 15 minutes each.)
**Sesame Seed Residue ELISA Protocol**

Add 100 microlitres of Standards and Samples to their allocated Antibody-coated wells. Mix all wells for 10 seconds by gentle shaking on a flat surface. **Incubate for 15 minutes.**

Add 100 microlitres of the Red Conjugate Solution to each well. Mix all wells for 10 seconds by gentle shaking on a flat surface. **Incubate for 15 minutes.**

Add 100 microlitres of the Green Conjugate Solution to each well. Mix all wells for 10 seconds by gentle shaking on a flat surface. **Incubate for 15 minutes.**

Add 100 microlitres of the Substrate Solution to each well. Mix all wells for 10 seconds by gentle shaking on a flat surface. **Incubate for 15 minutes.**

Add 100 microlitres of the Stop Solution to each well. Mix all wells for 10 seconds by gentle shaking on a flat surface.

**Read results visually, comparing with the colour of the Standards. The results can be read on a microplate/strip reader. Results must be read within 30 minutes.**

**Interpretation of Results**

Interpretation is based on the suggested extraction/dilution protocol. Results are for screening purposes. All results should be interpreted as part of a HACCP plan for Food Allergens. Any sample returning a positive result should be regarded as a presumptive result and confirmation or further testing should be performed.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>No. of Wells</th>
<th>Max No. of Tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSESRD-48</td>
<td>48</td>
<td>46 as a screening test</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Depending on the number of samples and controls per run)</td>
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<tr>
<td></td>
<td></td>
<td>(a multichannel pipette must be used to achieve maximum sample numbers)</td>
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</tbody>
</table>

**30+ as Quantitative test**

Manufactured by ELISA SYSTEMS Pty Ltd.

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