**AlerTox® ELISA**

*Specific for wine*

Highly specific and sensitive **ELISA Sandwich kits** for quantitative determination of allergens in wine

- **AlerTox® ELISA** Ovalbumin
- **AlerTox® ELISA** Lysozyme
- **AlerTox® ELISA** Casein

**Specific for Wine Analysis**

- ELISA Sandwich (96 or 48 wells)
- Validated for any kind of wine matrices (rosé, white and red wines)
- Method Conform with O.I.V. Requirements (International Organization of Vine and Wine)

<table>
<thead>
<tr>
<th>AlerTox Protein</th>
<th>Recovery rate</th>
<th>Target Protein</th>
<th>Detection Limit (LOD)</th>
<th>Quantific. Limit (LOQ)</th>
<th>Quantific. Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ovalbumin (Ref. KT-5759)</td>
<td>93% - 102%</td>
<td>Ovalbumin (Egg white)</td>
<td>4 ppb</td>
<td>2 ppm</td>
<td>25 ppb - 500 ppb</td>
</tr>
<tr>
<td>Lysozyme (Ref. KT-5757)</td>
<td>91% - 100%</td>
<td>Lysozyme (Egg white)</td>
<td>2 ppb</td>
<td>2 ppm</td>
<td>25 ppb - 250 ppb</td>
</tr>
<tr>
<td>Casein (Ref. KT-5761)</td>
<td>102% - 103%</td>
<td>Casein (Milk)</td>
<td>0.05 ppm</td>
<td>0.20 ppm</td>
<td>0.20 ppm - 5 ppm</td>
</tr>
</tbody>
</table>

**Shelf Life:** 12 months from date of production (even after opening the kit).
Special for allergens detection in wine

Wine Manufacturing
The exemption for the wine labeling regarding casein and ovalbumin, according the European Directive 2003/89/EC, has been revoked following the negative Scientific Opinion of European Food Safety Authority. EFSA concludes that wines fined with casein / caseinate / milk products / egg derivates may trigger adverse reactions in susceptible individuals. Thereby, allergen labeling of wines become compulsory from June 2012. In the wine manufacturing process, casein and egg albumin are frequently used as fining agent proteins for the fining of white, red wines and rosé.

The European Regulation 1266/2010 (EC) establishes that all wines, placed on the European market or labeled after 30 June 2012, shall comply with the labeling rules. Commission Implementing Regulation (EU) No 579/2012 of 29 June 2012 amending Regulation (EC) No 607/2009 laying down certain detailed rules establishes the requirement to indicate any potentially allergenic ingredient on the labelling of any beverages containing more than 1.2 % by volume of alcohol, and especially egg-based or milk-based products used in making wines.

O.I.V. Conformity:
The O.I.V. (International Organization of Vine and Wine) through the OIV-COMEX 502-2012 RESOLUTION: REVISION OF THE LIMIT OF DETECTION AND LIMIT OF QUANTIFICATION RELATED TO POTENTIALLY ALLERGENIC RESIDUES OF FINING AGENT PROTEINS IN WINE establishes the following requirements for ELISA test systems: LOD = 0,25 ppm and LOQ = 0,5 ppm. AlerTox kits fulfill, therefore, the requirements of this intergovernmental organization for the detection of ovalbumin, lysozyme and casein residues in wine.