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**Immunoassays in
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(Book, 1991 ...**

Immunoassays in the

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Recently, it has been reported that almost 50% of the carbon from plants and animals was used in France for non-food purposes, e.g. wood, cellulose, textiles, aromatic and medicinal compounds, starch, mono- and polysaccharides are all obtained from plants; while carbon from animals was represented by wool, fur,...

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Authors (view
affiliations) A. Paraf; G.
Peltre; Book. 7

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Rapid Determination of Fumonisin B1 in Food Samples by ...

With the development of techniques applied to plant products, studies on plant components have recently developed tremendously. Plant components have been used for many purposes: industries based on the use of

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lignin or cellulose are well-known, while proteins represent a major source of food for men and animals.

Immunoassays in Food and Agriculture (eBook, 1991 ...

A comprehensive reference text on the use of immunochemistry in a variety of applications in the agricultural and environmental

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sciences, such as how to identify pathogens, food additives and It is a useful reference tool for laboratory scientists as well as an introductory text for students and teachers.

Development of Monoclonal Antibody Based Immunoassays for ...

For the past fifteen years, his main research focuses have been in the fields of

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immunochemistry and agricultural biotechnology including development, validation, and application of numerous immunoassays ranging from small molecules (e.g., pesticides) to macro-molecules (e.g., proteins) from genetically modified (GM) organisms.

**Immunoassays in
food and**

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They are also used in food and agriculture, for example to detect the presence of toxins or to identify meat species. Immunoassays have detected pollutants in the environment and traces of explosives and biological agents in criminal investigations.

A Lateral Flow

Page 12/29

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**Immunoassay for
the Rapid Detection
of ...**

Background.

Immunoassays have gained considerable attention in safety assurance for food, feed and agricultural products. Generally, immunoassays are presented either in a competitive or non-competitive, sandwich-type format, and the former is extensively employed for low-

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molecular-weight contaminants, which usually bear one accessible epitope.

Immunoassays | SpringerLink

Antigen-Down Immunoassay. In an antigen-down immunoassay, the analyte is coated onto a 96-well microtiter plate (rather than an antibody) and used to bind antibodies found in a sample. When the

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sample is added (such as human serum), the antigen on the plate is bound by antibodies (IgE for example) from the sample,...

An immunoassay for pyrethroids: detection of permethrin in ...

Currently there are no methods available that:
1) can help validate available assays for tree nut detection and quantification and 2)

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can adequately address the issue of antibody (Ab) cross-reactivity that may lead to false positive identification of the offending food. We propose to develop monoclonal antibody (MAb)-based immunoassays to 1) detect and quantify trace amounts of almonds and ...

**Immunoassay -
Wikipedia**

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ABSTRACT There is increasing interest for chemiluminescence (CL) detection with the characteristics of simplicity, low cost and high sensitivity, especially wide application of enhancers in CL detection to increased signals, prolonged luminescence time and enhanced intensity. In this review, the applications of primary enhancers and

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secondary enhancers were mainly described in the horseradish ...

**Food and
Agricultural
Immunology - Taylor
& Francis**

Food and Agricultural
Immunology 1994, 6
(4) , 341-356. DOI: 10.
1080/09540109409354
847. Mark T. Muldoon,
Judd O. Nelson.
Evaluation of the
effects of selected
agricultural materials

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on an ELISA for
s-triazines. Food and
Agricultural
Immunology 1994, 6
(4) , 357-370. DOI: 10.
1080/09540109409354
848.

Immunoassays in plant production | SpringerLink

Contaminants in food
can be defined as
undesirable
compounds that are
present in relatively
small amounts as a

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result of human action. This definition excludes those additives which are intentionally introduced with the aim of improving some properties of the product.

Immunoassays for meat products | SpringerLink

Immunoassay. An immunoassay is a biochemical test that measures the presence or concentration of a

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macromolecule or a small molecule in a solution through the use of an antibody (usually) or an antigen (sometimes). The molecule detected by the immunoassay is often referred to as an " analyte " and is in many cases a protein,...

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Immunoassays in Food and Agriculture | A. Paraf | Springer

The techniques of immunoassay comprise

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precipitation, gel diffusion, immunoelectrophoresis, immunofluorescence, enzyme-linked immunosorbent assay and radio-immunoassay. After introductory chapters on the antigen-antibody reactions involved, there are accounts of applications to animal husbandry (endocrinology, doping, disease diagnosis),

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plant production, milk constituents, fermentative processes...

Immunoassays in the Agrofood Industry | SpringerLink

technology in food and agriculture. Food and environmental protection: food irradiation provides a safe and environmentally friendly method for

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controlling food-borne diseases and insect pests and maintaining food quality at the post-harvest level.

Analytical nuclear techniques are used to trace and authenticate food products and combat food fraud.

Food and Agriculture

Abstract. These assays were chronologically the first to be developed (Table

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1.5.1). Their early set up was usually very simple. They can be performed with inexpensive equipment and reagents, however, their sensitivity is rather limited.

What is an immunoassay? Antibody Sandwich, Antigen Down ...

Tianjin Key Laboratory
of Food Nutrition and
Safety, Faculty of Food
Engineering and

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Food And
Biotechnology, Tianjin
University of Science
and Technology,
Tianjin 300222,
People's Republic of
China; Department of
Food Science,
University of New
South Wales, Sydney,
NSW 2052, Australia;
and Faculty of
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Natural Resources,
University of Sydney,
Sydney, NSW 2006,
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Biotechnology |
Wiley Online ...**

A one-step lateral flow immunoassay was developed for semiquantitatively detecting ochratoxin A (OTA) in wines and grape musts. Matrix-matched calibration curves carried out in blank wines showed a detection limit of $1 \mu\text{g L}^{-1}$ and IC_{50} of $3.2 \mu\text{g L}^{-1}$. Relative standard

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deviations for intra-
and interday precision
were in the 20-40%
range.