



殺蟲劑益達胺 (imidacloprid) 之 ELISA 快速檢驗組

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簡歷：

<http://dns.entomol.ntu.edu.tw/chinese/teacher/hsujc/teacherhsujc.htm>

市場及需求：

有鑑於食安問題頻傳，民眾對於食品之健康要求提升，對農藥殘留問題也更關切，而目前儀器分析方法耗時昂貴，抗體免疫檢驗試劑組可一次檢驗多個樣品，得以縮短分析時間並降低檢驗成本。

技術摘要：

本產品一次可檢驗 96 個樣本，輔以分光光度計即可輕易估算出樣品中的益達胺殘留量，所需設備取得容易、操作步驟少，一般實驗室皆可使用。

優勢：

相較於傳統儀器分析方法耗時數小時、操作繁複，本產品僅需兩步驟，共 1.5 小時反應時間。

氣相、液相層析串聯質譜儀動輒千萬新台幣，屬於貴重儀器，一般實驗室難以負荷，本產品所需之分光光度計價格較低，具有競爭力。

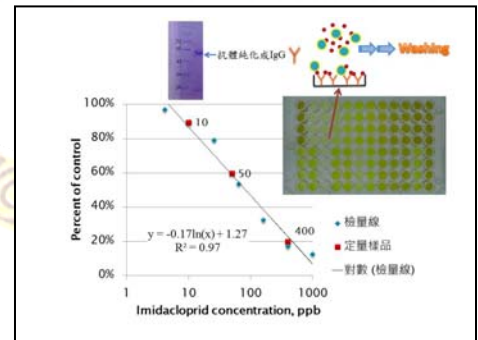
傳統儀器分析需使用乙腈等有毒溶劑，本產品不需使用有機溶劑。

競爭產品：

有機磷/胺基甲酸鹽類農藥檢測試劑組

專利簡述：

本產品尚未申請專利，惟本團隊已操作相關實驗三年餘，對於該實驗相當熟悉。



聯絡方式：臺大產學合作總中心

Tel: 02-3366-9945, E-mail: ntuciac@ntu.edu.tw



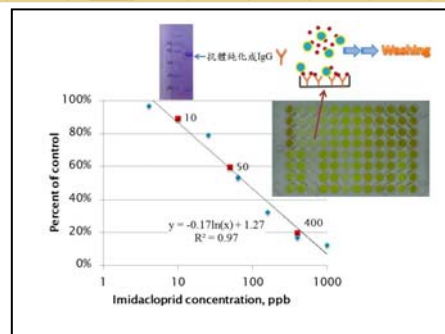
ELISA kit for imidacloprid residue detection

PI : Prof. Ju-Chun Hsu

Department of Entomology, National Taiwan U.

Experience:

<http://dns.entomol.ntu.edu.tw/chinese/teacher/hsujc/teacherhsujc.htm>



Market Needs:

News about and food poisoning happened frequently, people started to care about the food safety and pesticide residue. To date, all of the detection methods took several hours to days, the needed machines are too expensive to afford for normal laboratory. As a result, people need a faster, cheaper way to detect pesticide residue. If there is a kit that can detect many different samples at the same time, it may help shorten detecting time.

Our Technology:

Our product can analyze 96 samples at one time. With the help of spectrophotometer, we can evaluate the value of imidacloprid residue in the crops easily. The needed equipment is affordable to normal laboratory. The operation is only two simple steps, people can easily understand with few lab experiments.

Strength:

Traditional pesticide detection methods take several hours to days. Compare with it, our product takes only 1.5 hours to get the result. The machines like GC/MS-MS and LC/MS-MS are too expensive to be afforded by normal laboratory, but our product use spectrophotometer which is much cheap for labs.

Traditional pesticide detection method

Competing Products:

Other pesticide detection kits

Intellectual Properties:

We haven't apply the intellectual property, but our team has operated the experiment more than three years.

Contact (do not need to fill out):

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