

UHPLC-PDA and You

What's Your True Identity?

Broughton Laboratories are pleased to announce the installation of a further two Dionex Ultimate 3000 HPLC systems with photodiode-array detection (PDA). Most active pharmaceutical ingredients in finished product formulations require a minimum of two identification methods and often the comparison of chromatographic retention time alone is no longer sufficient. The use of PDA detection allows UV spectra to be generated instantaneously whilst performing the assay of the active content. Comparing the generated sample spectra against that of a reference sample allows the identity of the active to be confirmed and in most cases can negate the need for a secondary and often lengthy wet chemistry technique.

Combining the selectivity and sensitivity of the Ultimate 3000 PDA detector along with all Ultimate 3000 systems being UHPLC focussed facilitates the rapid separation and identification of the finished product actives. Broughton Laboratories have recently combined this functionality for one of its clients to reduce the analysis time of a finished product by over 50% thus significantly reducing the costs of outsourcing the finished product analysis.

Broughton Laboratories Managing Director Chris Allen says "in the current economic climate businesses need to look at smarter more efficient ways of reducing the cost and time of getting their products to market. The use of PDA detection and UHPLC allows vastly reduced run-times and often the justification to remove classical wet chemistry identification methods, which provides an opportunity to save time and costs which we can pass directly on to our clients".

To find out more about working with Broughton Laboratories on how updating your methodology can save you time and money please contact support@broughtonlaboratories.co.uk.

About Us

We are a state of the art cGMP compliant contract laboratory based in North Yorkshire, UK, inspected by both the MHRA and FDA. We offer a range of services including QC drug product batch release testing, analytical test method development and validation, technical projects, GxP compliant ICH stability storage, software design and deployment.

