

PRESS RELEASE

Reproducible Scale-up of Medicinal Chemistry Reactions

Asynt reports that medicinal chemistry specialists **Charnwood Molecular** (Loughborough UK) have been using the **DrySyn MAXI heating system** to successfully and reproducibly scale up syntheses within their contract research laboratories.

Dr Michael McKenzie, Head of Operations, said: "Here at Charnwood Molecular our experienced preclinical R&D team routinely investigate the development of small scale medicinal chemistry routes in order to facilitate the timely supply of up to 500g of a final compound to our clients for testing. Delivery of this initial key amount of compound for preclinical studies is accompanied by a new, robust and transferable scale-up route to go beyond that quantity in clinical phases. Investment in DrySyn technology has allowed us to reproducibly scale-up our customers' synthetic reactions from the milligrams to hundreds of grams scale."

Used with a conventional laboratory hotplate stirrer, DrySyn MAXI heating blocks provide rapid, safe and controllable heating up to 250°C, with excellent reaction visibility and powerful stirring. The DrySyn MAXI block accommodates any standard 3000ml round-bottom flask, and using an insert the block is easily adapted for 2000ml flasks. Heat-resistant handles on the heating block make for greater safety and convenience when moving these large flasks around the laboratory. Provision is made for a temperature probe should temperature feedback control or monitoring be required.

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Using standard round-bottomed reaction flasks, the DrySyn MAXI heating system from Asynt provides safe and accurate temperature control for synthesis, distillation and reflux operations when larger volumes (up to 3 litres) are in use. For further scale-up, the DrySyn SuperMAXI heating block is available for both 4000ml and 5000ml sized flasks.

For further information on reproducible medicinal chemistry synthetic scale-up using the DrySyn MAXI heating block please visit <https://www.asynt.com/product/drysyn-maxi/> or contact Asynt on +44-1638-781709 / enquiries@asynt.com.

Asynt (www.asynt.com) is a leading supplier of affordable products, consumables and services for chemists in industry and academia. With staff of trained chemists - Asynt can draw upon this in-depth applications knowledge to provide a high level of customer support for its DrySyn Heating Blocks, Controlled Lab Reactors, Synthesis Tools, Evaporators, Circulators, Temperature Control Systems, Vacuum Pumps and Laboratory Safety Equipment.

Operating from state-of-the-art research facilities in Loughborough and BioCity (Nottingham), UK, Charnwood Molecular is a leading Contract Research Organisation providing medicinal chemistry, process research and chemical development, and other synthetic chemistry services to the global pharmaceutical, biotechnology and chemical industries. For further information please visit <http://www.charnwood-molecular.com/>.

JANUARY 2018

asyntpr78.doc

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Illustrative image: (available on request)



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