



NEWS RELEASE

New maintenance tools from Copley Scientific help optimise inhaler testing

30 June 2009; Nottingham, UK: New pinning kits from Copley Scientific provide users of cascade impactors with a valuable tool for maintaining the long-term performance of their systems. Cascade impactors are a regulatory requirement for measuring the aerodynamic particle size of all inhaled pharmaceutical products. Sample-laden air is drawn through series of nozzles of decreasing size, causing particles to separate into a number of size fractions, on the basis of their inertia, depositing on collection surfaces beneath. Nozzle diameter is critical for precise performance but erosion, corrosion and/or occlusion are common problems with continued use. The new pinning kits allow the restoration of nozzle diameters that have decreased over time, by gently removing any occluding material, without damaging the instrument.

Instruments such as Next Generation (NGI) and Andersen Cascade Impactors (ACI) deliver the accurate aerodynamic particle size data necessary for assessing the *in vitro* deposition behaviour of an inhaled formulation. The new NGI and ACI pinning kits include a range of pins precisely engineered to slide into the nozzles of each stage of an impactor. They allow users to restore nozzle diameter by gently removing any occluding material. Regular use of the pins, if required, will ensure that performance is maintained between routine (typically annual) stage mensurations.

During stage mensuration nozzle diameter is measured precisely to verify the performance of the impactor, and remedial action such as stage pinning is taken where necessary. However, an out-of-specification result may possibly call into question the accuracy of all measurements made following the preceding mensuration. Extending access to stage pinning allows for more effective regular maintenance enhancing the routine user's ability to keep nozzle dimensions within the in-use margin. www.copleyscientific.com

Ends

Image, notes and contact details to follow...

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High resolution image attached and/or available from Trish Appleton, Kapler Communications trish@kapleronline.com Ref: COP/JOB/075

Caption: New pinning kits from Copley Scientific



About Copley Scientific

Copley Scientific is recognised as the world's leading manufacturer of inhaler test equipment and is a major supplier of test equipment for pharmaceutical solid dosage forms, including tablet dissolution, disintegration, friability, hardness and powder testers. The company has offices in the UK and Switzerland and a partnership with aerosol particle science experts MSP Corporation in North America. Copley's broad range of testing products for metered-dose inhalers, dry powder inhalers, nebulizers and nasal sprays are supplied and supported worldwide through close relationships with specialist distributors. Serving the pharmaceutical and associated industries, Copley offers an extensive range of equipment for research, development and quality control, as well as full validation and aftersales service, providing a single source for products that meet individual needs. www.copleyscientific.com

For further information

Press information

Trish Appleton, Kapler Communications
Knowledge Centre, Wyboston Lakes, Great North Road,
Wyboston, Bedfordshire, MK44 3BY, UK
Tel: +44 (0)1480 479280; Fax: +44 (0)1480 470343 trish@kapleronline.com

Company contact:

Mark Copley, Sales Director, Copley Scientific Limited
Colwick Quays Business Park, Private Road No. 2, Colwick, Nottingham UK NG4 2JY
Tel: +44 (0)115 961 6229 Fax: +44 (0)115 961 7637
m.copley@copeyscientific.co.uk www.copleyscientific.com

North American Distribution

MSP Corporation
5910 Rice Creek Parkway, Suite 300, Shoreview, MN 55126 USA
Tel: +1 651-287-8100 Fax: +1 651-287-8140
Email: sales@mspcorp.com www.mspcorp.com