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Grant Instruments
(Cambridge) Ltd
Shepreth
Cambridgeshire
SG8 6GB England

Tel: +44 (0)1763 260811
Fax: +44 (0)1763 262410
www.grant.co.uk

Grant's new densitometer provides quick and accurate measurement of cell suspension turbidity

- *Compact and easy-to-use benchtop densitometer measures turbidity in the range 0.3 to 15.0 McFarland units*
- *Designed for a wide range of life science, microbiology and industrial applications*

CAMBRIDGE, UK, January 24, 2008 - Grant Instruments (www.grant.co.uk), a world-renowned supplier of scientific, life sciences and data acquisition products, has further expanded the **Grant-bio** product range with the introduction a compact and efficient benchtop densitometer for quick and accurate measurement of cell suspension turbidity and cell concentration across a wide variety of life science, microbiology and industrial applications.

The **Grant-bio** DEN-1 densitometer is factory calibrated and able to measure turbidity in the range of 0.3 to 5.0 McFarland units with a small standard deviation. The range can be extended up to 15 McFarland units but with a concomitant increase in the standard deviation. It can also be user calibrated with commercial standards or cell suspensions prepared in the laboratory. Accurate to $\pm 3\%$, the unit features a light diode at 565nm wavelength and boasts a measurement time of around one second per sample.

The DEN-1 is very compact - measuring just 165 x 115 x 75mm, has a bright 2 digit LED display and is compatible with 16 or 18mm test tubes. The unit is mains powered, a battery-powered version will be available in the near future. As with all of the **Grant-bio** range of life science products, the DEN-1 densitometer is robust and reliable and comes with a 2-year warranty.

Typical applications for the new densitometer include determining the concentration of cells (bacterial and yeast) in fermentation processes, detecting the susceptibility of micro-organisms to antibiotics, identifying micro-organisms with various test systems, and measuring optical density at fixed wavelength.



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“The DEN-1 is a competitively-priced, multi-purpose, densitometer which offers fast and reliable performance across multiple applications,” says Rob Thorburn, Commercial Manager for Scientific Products at Grant. “It will be popular with life scientists and microbiologists working in the general laboratory as well as those in the brewing industry. Also, because the wavelength is monitored in 565nm, the DEN-1 is ideal for industrial customers that need to monitor processes that involve dyes or solutions that absorb green light.”

Grant’s comprehensive range of scientific products includes block heaters and coolers, baths and thermostatic circulators, re-circulating chillers, flow heaters, and, under the **Grant-bio** brand, microplate and micro-tube thermoshakers, UV cabinets/PCR Workstations, centrifuges, densitometers, rockers, rotators, shakers, mixers and stirrers, including the newly-released MMS-3000 mini magnetic stirrer, a compact stirrer for handling small volumes in routine laboratory procedures such as pH metering, extraction and dialysing.

The **Grant-bio** series of products can be purchased worldwide through the extensive network of Grant appointed scientific products distributors. A full range of accessories is available, making the **Grant-bio** product range one of the most comprehensive on the market for sample preparation and treatment, as well as representing excellent value for money.

Grant has been designing, manufacturing and distributing scientific products for the past 57 years and has established a worldwide reputation for high quality, reliable and robust equipment designed to satisfy the most demanding applications for research in life sciences, chemical and general laboratories.

For more information about Grant’s wide range of scientific products, please visit www.grant.co.uk. Alternatively, please telephone +44 (0) 1763 260 811 or e-mail scientificsales@grant.co.uk.

A high resolution photograph of Grant’s DEN-1 tube densitometer is available at <http://www.grant.co.uk/About/News/>.

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About Grant Instruments

Grant Instruments (Cambridge) Limited (www.grant.co.uk) is a world renowned supplier and manufacturer of scientific, life sciences and data acquisition products. The company has been designing, manufacturing and distributing scientific products for the past 57 years and has established a worldwide reputation for high quality, reliable and robust systems designed to satisfy the most demanding applications for research in life sciences, chemical and the general laboratory. Headquartered at Shepreth on the outskirts of Cambridge, England, the company has an extensive network of dealers and distributors servicing Europe, the Americas, and the Asia Pacific region.

Media contact:

Martin Brooke

Martin Brooke Associates

Tel: +44 (0) 1223 244500

Email: martin.brooke@mba-pr.com