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Analytik reports on how Scott Bader benefits from using the CPS Disc Centrifuge UHR particle size analyser to measure conventional and inverse emulsions.

Cambridge, UK, 12th January 2016: Analytik, leading suppliers of innovative analytical instrumentation, report on Scott Bader's characterisation of conventional and inverse emulsions using the CPS Disc Centrifuge UHR.

Scott Bader is a multinational chemical company with production and laboratory facilities around the world. Their Speciality Polymers Group is based at Wollaston near Wellingborough. Here the group develops conventional and inverse emulsion products for a variety of industrial applications, as well as providing technical support for production. The most familiar type of emulsion is probably the oil in water emulsion (e.g. salad dressing or milk). This is sometimes called a conventional or o/w emulsion. However, it is also possible to form an inverse or water in oil (w/o) emulsion. In an inverse emulsion, the water droplets are dispersed in a continuous phase of oil. Many medicinal creams and butter are water in oil emulsions.

Speaking about the benefits of the CPS Disc Centrifuge UHR, polymer development manager, Luke Alger, says "Particle size is a very important characteristic of both conventional and inverse emulsions. Prior to the purchase of the CPS Instruments system, it was not possible to measure the particle size of inverse emulsions. Also the group is able to get a lot more detail for conventional emulsions compared to using the other techniques leading to greater control in improving product properties".

The CPS DC24000 UHR is an effective analytical tool for ultra-high resolution, high accuracy measurement of particle size distribution. Highly poly-dispersed particles can be measured in the size range of ~3.0 nm to ~60 microns, at 2 to 10 times better resolution than any other particle sizing instrument, regardless of measurement technique.

Utilising [Differential Centrifugal Sedimentation \(DCS\)](#), the CPS Disc Centrifuge UHR offers the unique ability to resolve very close multimodal particle distributions and to distinguish extremely small shifts in particle size. Rather than using a predictive algorithm, the instrument physically separates the nanoparticles and then measures them as they pass a light beam - providing full characterisation in real time.

As Product Specialist, Hiran Vegad says, "The CPS Disc Centrifuge provides particle sizing data that always surprises users when compared to data produced with traditional light scattering techniques

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such as DLS or Laser Diffraction. The CPS technique is easy to understand and use, and by giving real, accurate, reliable and reproducible data, it makes the instrument an integral part of every particle characterisation lab”.

To find out more about the CPS range of particle analysers and to watch an introductory video on the system, visit: <http://www.analytik.co.uk/nanoparticle-size-analysis.htm>.

Attachment:



Luke Alger, Scott Bader's polymer development manager, using the CPS Disc Centrifuge for measuring conventional and inverse emulsions

For a high resolution copy of the image, either right click to download or contact Jezz Leckenby at Talking Science.

About...Analytik are leading suppliers of innovative analytical instrumentation to the UK and Ireland. Delivering cutting-edge solutions from global technology providers, coupled with responsive service and flexibility has enabled Analytik to build an impressive customer base since forming in 2003. Analytik's partners include Agilent Technologies, ASD Inc.(a PANalytical company), SciAps, Microfluidics, Sentronic, GL Optic, Avian Technologies, GeSiM, CPS Instruments, Videometer, Headwall Photonics, Quantum Northwest and Schmidt + Haensch. Solutions include portable and handheld spectrometers (FTIR, NIR & Raman), spectral imaging systems, light measurement systems, reflectance standards and coatings, non-contact nanolitre dispensing systems, nanoparticle size analysers, high shear fluid processors, sample temperature control systems, polarimeters and refractometers.

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