



Media Announcement

German university study shows superior performance by Gelcompany's new HPE System

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16 November 2009 – Sydney, Australia: A study by Germany's Greifswald University has confirmed the outstanding performance of Gelcompany's High Performance Electrophoresis (HPE) system.

HPE comprises innovative consumables and equipment that enable scientists to better measure biological processes using horizontal high performance electrophoresis.

Gelcompany, the wholly owned subsidiary of Fluorotechnics (ASX: FLS), commissioned Greifswald's University Institute for Microbiology headed by Prof. Michael Hecker (contact: Mr Knut Buettner) to conduct the study to evaluate the new HPE system against the current forms of electrophoresis methodology at one of the world's leading proteomic research facilities.

The findings showed the HPE system delivered up to 20% more identified spots. Due to the HPE gel and buffer system the spots are sharper and have higher protein concentration, in particular the low molecular weight proteins showed sharper spots. Most remarkable, however is the much improved reproducibility, which together with less labour resources required, leads to a much higher productivity of the 2D process.

Tests were performed in the Institute's specialty area of bacterial infections with the study based on 120 gels for each approach.

"The results are proof that Gelcompany's HPE system is the best electrophoresis system available anywhere to date," said Knut Buettner.

"Combine the results with the fact it is easier, faster and cleaner we have a major leap forward in proteomics research."

Gelcompany's CEO James Walker said while they were aware of the HPE system's potential, the results outweighed expectations.

"We initially stated the system could detect 10 per cent more proteins rather than the 20 per cent figure Knut Buettner's research has shown," said Mr Walker, "after a lot of hard work it's very satisfying to see such a stand out result from an independent source."

Launched in September, the HPE system used new technology enabling higher resolution, reproducibility and easier to use 1D and 2D gel electrophoresis separations than any other system.

The system also eliminates use of time-consuming vertical electrophoresis glass gel cassettes, instead using quality-controlled, pre-cast gels on plastic backing laid onto cooling plates. These HPE pre-cast gels come in standard 12.5 cm x 25 cm and large sizes 20 cm x 26 cm – electrode positions are adjustable for the both sizes. Non-fluorescent film backing is available for fluorescent detection, together with standard film backing for visible staining.

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About Fluorotechnics and gelcompany: Fluorotechnics, under the trade brand of Gelcompany sells and develops innovative consumables and equipment that enable scientists to better measure biological processes.

The company has established itself as the global leader in the supply of products which are environmentally friendly, safe to use and offer a unique solution and superior performance compared to existing products. These products are used globally by our customers in research, quality control and diagnostics.