

## Safer Milk, Home Health Testing and a Whole Lot More

PortaScience Inc., a small R&D company based in Moorestown, is on the road to helping dairy farmers all over the world improve milk quality. Armed with a new diagnostic test, PortaScience launched a head-on attack on dairy mastitis, a disease which the National Mastitis Council estimates costs American dairy farmers \$2 billion dollars a year in lost income. The test is based on a new patented technology that makes possible inexpensive, accurate, on-farm testing, for somatic cells. The number of cells present in

the milk is an indication of mastitis and directly affects milk quality.

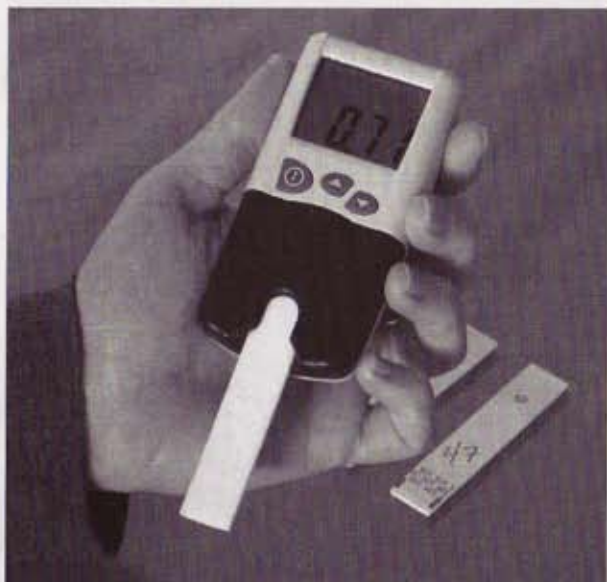
Since its introduction almost two years ago, the PortaSCC® milk test has become so well-accepted by both farmers and dairy professionals that it is now marketed in over 20 countries worldwide. According to Professor David Lee of Rutgers University, New Jersey's dairy extension specialist, "A rapid on farm test helps assure a safe, wholesome supply of dairy products. The PortaSCC milk test has become an integral part of our New Jersey Dairy Quality Management Programs." With other products for the dairy market under development, PortaScience is well placed to become a significant player in the dairy industry.

The dairy industry is not the only one where PortaScience is making an impact. The company's proprietary technology concentrates primarily on the healthcare industry. In fact, the PortaSCC® milk test was an outgrowth of a White Blood Cell Count test that the company has developed for cancer patients to monitor their cell counts at home. "With US healthcare costs rising at alarming rates, we need innovative technological solutions to better manage overall costs", says Mike Gavin, VP of R&D for InforMedix, Inc. "PortaScience has been in the forefront of developing effective point-of-care tests that are needed for the management of chronic disease states."

Yet another application of this technology is a CD4 test for AIDS patients. Together with the international nonprofit agency PATH, PortaScience is developing an affordable single-use test for AIDS patients. According to a 2003-2004 UNAIDS report, the Clinton Foundation's financial partnership with UNAIDS and the World Bank aims to decrease the cost of existing CD4 diagnostic equipment by up to 80 percent. "There is a need for a very inexpensive and easy-to-use CD4 test for field use," says Wai Law, PortaScience president and founder. The technology we're developing will serve that need."

All these tests employ similar technology: a drop of body fluid applied to a test strip induces a color change whose intensity can be used to quantify cell count, either by comparison with a color chart or with the use of a handheld digital reader. This system is affordable and portable testing options, so that tests that were traditionally done in a lab can now be easily performed at home or in the field.

"Technologies are finally available for the development of easy-to-use tools for health testing at home," said Law, "We anticipate that in the future, more and more consumers will start using these new tools to monitor their health, just like the diabetic patients who are already monitoring their own blood glucose levels at home. Home medical tests are important for increasing the likelihood of early detection. If a patient or doctor can detect a problem on the spot without having to wait for lab results, the chance of the patient receiving fast and effective treatment is much greater."



## REACH<sup>new</sup> HEIGHTS

**T**he Amper Technology Team has the know-how, the drive and the connections growing technology companies count on to succeed. Drawing on the resources and reputation of Amper, we assist our technology and life sciences clients with financing and capital needs, business and strategic plans, employee benefits and human resource issues as well as NOLs, R&D tax programs, Sarbanes-Oxley and internal audit services. To find out how we can help your company reach new heights, contact:

**Phil Politziner**  
ppolitziner@amper.com

**Alan Wink**  
wink@amper.com

**Brian Downey**  
downey@amper.com

**John Pennett**  
pennett@amper.com

732.287.1000  
www.amper.com



**AMPER, POLITZINER & MATTIA**  
CERTIFIED PUBLIC ACCOUNTANTS  
and CONSULTANTS

*"Seeing Beyond the Numbers..."*

