

From the desk of Dr. Jian Rong Liu

May 28, 2004

To Whom This May Concern:

Re: Microbial Sampling with the IntelliQUANT™ 9000

Over the past six (6) months I have worked extensively with the IntelliQUANT™ 9000, comparing its accuracy and ease of use to standard membrane filtration method.

I conducted testing and evaluated results for e.coli, enterococci, total bacteria and total coliform in drinking water and surface water samples.

I earned my Ph.D., in Microbiology at La Trope University in Australia and have worked in various research laboratories around the world.

In my opinion, as far as the detection of microorganisms in water are concerned, the IntelliQUANT™ 9000 has proven itself to be the most accurate, simple and easy to use instrument that I have ever experienced, in all of my years of working in the field of microbiology.

Traditional microbiological enumeration methods are tedious, time-consuming and very labour-intensive. They are prone to error, poor precisions and accuracy.

I found some of the particularly unique qualities of the IntelliQUANT™ 9000 to include the following:

- i) Because of its large linear dynamic range, no dilutions of the samples are required, thus eliminating the counting failures and errors, which are common in membrane filtration method;
- ii) That result analysis are available much earlier than standard methods and with precision superior to membrane filtration;
- iii) My confidence level in the CFU count using the IntelliQUANT 9000 is much higher than using membrane filtration. It is so easy to use there is virtually no chance of sample contamination, no errors caused by turbidity and no colony counting errors as with membrane filtration. Quality Control is simplified.

- iv) The instrument automatically records the initial temperature of the sample, which is an important regulatory requirement, especially when dealing with drinking water;
- v) Unlike standard methods, the IntelliQUANT™ 9000 brings speed and automation to routine microbiological testing with increased efficiency in reporting and data communication.

In summary I found the IntelliQUANT™ 9000 to be a robust tool, equally effective for use in the field or the laboratory. Based on my experience, I can categorically state that the IntelliQUANT™ 9000 provides greater reproducibility than the membrane filtration method.

As a microbiologist, I have no hesitation in recommending the IntelliQUANT™ 9000 to those who are in the field of routine monitoring whether it is drinking, surface or wastewater. I also see a great potential for this unit in the agriculture bottling and food processing industries.

Sincerely,

J. R. Liu
Jian Rong Liu, Ph.D