

ATP METER TESTING RESULTS ON CHRISAL

Testing done with an ATP METER on Chrisal in Canada - by John Edwards:

From: John Edwards **Sent:** Friday, April 16, 2010 7:29 PM **To:** Lino@LinoMail.com
Subject: Re: FW: (7) ATP - ADENOSINE TRIPHOSPHATE TESTING ON CHRISAL

COMPARISON TESTING: We devised a very simple protocol to compare the:

- (1) Chrisal Sanitary Cleaner with
- (2) a control area cleaned with dish soap and water and
- (3) an area cleaned with Lysol All Purpose Cleaner. This (Lysol) cleaner claims to kill germs on contact.

The area tested is a counter in my house where all of our meals are made. This counter was divided into three sections for the testing. Up until now, we have used dish soap to keep it clean (or so we thought), wiping it on an as needed basis after preparing meals. Looking at the early results, we obviously need to work harder at this.

Here is the exact protocol used:

Every evening at 10 PM (except today when I cleaned it at 4 PM PDT) I cleaned each area separately with one of the three solutions for each area, as follows:

- (a) A solution was poured onto a paper towel - and
- (b) Then we then took the paper towel wet with each solution and wiped back and forth three times over the test area.
- (c) That paper towel was then discarded.
- (d) The protocol was repeated for each area.
- (e) I then waited 1/2 hour for each area to completely dry,
- (f) Then we tested each area with the Hygiene ATP meter according to the instructions.

Following are the test results of ATP Cleanliness Testing:

Note that with ATP testing, the lower the read-out number, the cleaner the area tested and that any reading of 30 or less is deemed safe for food preparation:

<u>Date Of Test</u>	<u>Cleaner Lysol</u>	<u>Control Cleaner Kitchen Soap</u>	<u>Cleaner Chrisal</u>
April 11	739	715	194
April 12	320	1,270	48
April 13	110	850	10
April 14	102	98	3
April 15	71	43	14 (heavy guest
April 16	87	74	14 traffic day)



Photo of test counter area

It is obvious from every single test that the Chrisal PIP worked best right from the start, but even more important, that there is a huge advantage of cleaning with Chrisal over any other type cleaners. See our web site for the service we now offer due to this testing.

Sincerely, John Edwards (link: http://www.chrisal.ca/index_files/Contamination_Testing.html)

Testing done by GWH in California:

Results as of: Friday, April 09, 2010 3:27 PM - Subject: FW: Hygiene (Testing)

The ATP units used for testing were the Hygiene Sure Plus luminometer unit (see article by UK GM re use of ATP readings as adjunct to biological plate testing).

Note – any reading of 30 or less is deemed safe for food preparation.

RESULTS: After using a sample ATP unit for the past 3 weeks it has shown to be very useful – and also proves the point that surfaces are much dirtier than people think. Some samplings:

1. GWH home kitchen counters:

- at time of cleaning with **PIP** 23 avg
- 24 hours later 16 avg
- 48 hours later 46 avg

- cleaned with **WAVECIDE** 23 avg
- 24 hours later 78 avg
- 48 hours later 128 avg

2. Tested random coffee shop and restaurant tables

- Peet's Coffee 78
- El Torito 1,900 (not an error -checked it twice -really that dirty - won't even go back for Margaritas!)

- El Callejon 280
- Yard House 194
- Yard House Menu 190
- Pipe's Rest 285

3. Misc. areas around the house varied from 23 to 385 (door from garage to garbage area).

4. Customer's home kitchen counter - and they use PIP religiously

- **before cleaning** **451**
(cleaned 3 days before with PIP - found out that they had not cleaned the counter since preparing their pet's food at the spot tested)
- **cleaned with PIP** **24**

The bottom line is that ATP Meters are a great device to show degree of cleanliness and how the surface tested would support infections growth, let alone mold, smell, etc.. You do not translate the readings directly into pathogen levels, but it does show how much dirt/nutrition is available to support pathogen colonization and great Chrisal PIP is as a cleaner, so much better than all the others tested.

Then, to show exactly how powerful Chrisal PIP is to vastly lower the risk of infection, all the testing data on actual pathogen types and growth from all the hospitals and laboratory studies prove the advantages of PIP going to work to protect and to eliminate/prevent pathogen biofilm formation.

Testing done by A. Burnett & the ATP meter factory representative in Ohio:

Lino: Here are the results of the testing completed here on 3-25-2010. Ms Kimberly Metzler, the area rep for the Hygiene Company, provider of the ATP meter, was kind enough to come to our office and give a meter demonstration. We were very impressed by the ease of use and the ability to provide instant (15 seconds) results of the amount of ATP on any surface including skin.

The demonstration started with an explanation of ATP and how it is measured. The q-tip type swab is pre-moistened with a hospital grade type of mouthwash and rubbed over a 4sq. inch area. The swab is put back into its container and an ampoule of liquid at the top is snapped to wash the ATP from the swab. The whole container is put back into the meter and the top closed. One button pushed and 15 seconds results are displayed.

Our test went very well. I had not cleaned anything in the office that particular day. So nothing was especially prepared for the test. Ms. Metzler handed me two swabs and told me to test a couple of surfaces.

I chose the toilet seat and the kitchen sink.

The toilet seat result was perfect 0 and I offered to retest but she said that was not necessary.

The sink came back a 22. Anything below 30 is clean enough to prepare food.

I was then asked to wash my hands well with soap and water. I did so vigorously, and I dried my hand with a paper towel. A swab sample of my right palm was taken and the result was 227.

She then instructed me to clean my hands with Chrisal. I used the all purpose cleaner that had been prepared in a spray bottle several days before. I gave my hands three short sprays and rubbed them together for about 8 to 10 seconds. I then rinsed my hands under running water and dried them with a micro-fiber cloth that was handy. **She retested the same hand less than a minute later with a new swab. The result was 23. It was better than 90% reduction of ATP in less than a minute.**

I had previously tested our kitchen table. The right half was untouched. The left side was lightly cleaned once a day for three days with our All Purpose Cleaner mixed at 100 to 1 concentration. **The right side corner measured 228 on the ATP meter and the left side tested 7. The following day the left tested 6 showing the residual affect of Chrisal PIP products.** If I had more swabs, I would have tested the third day.

I personally think this is the ideal method to show instant result of cleanliness of any surface cleaned with any product. Our product is astounding and this ATP meter proves it instantly!

A.B.: I just had a conversation with Kim Metzler the rep for Hygiene corp. she is running a test on her bed, she informed me Dust Mites have ATP and she says she will let us know the results, but her initial use has shown real results. If this workout we will now have an instant way to show how well the PIP spray works on bedding and soft furnishings

NOTE:

Additional testing is now being done in a dozen facilities as well as the ATP central international laboratory in the UK and all the results will be added to this file. Dr. Robert Jaros, M.D., a key member of the Company's advisory board will be coordinating the results along with John

Edwards to prepare a scientific paper on the actual mechanisms involved in the detection methodology.

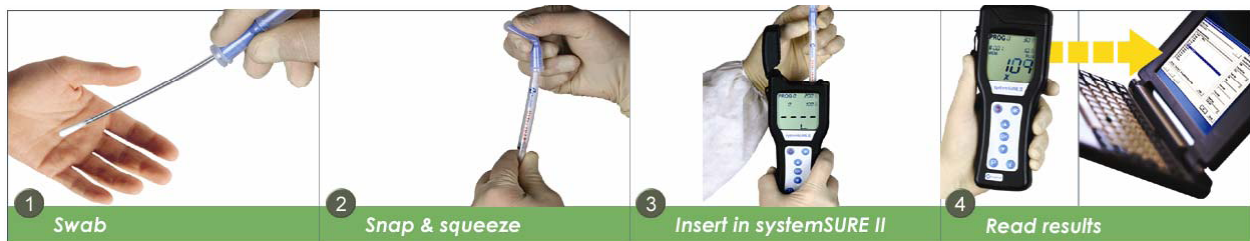
Further note that we have been so impressed with both the results and the speed of ATP Testing - and the fact that it has become an accepted standard in testing around the world in many fields - that we have taken a distributorship for these meters with volume pricing for our distributors, agents and customers and already bought the first five meters in the first week with a half dozen more now under evaluation.

For any qualified entity working with us, a free 30 day field trail of a ATP Meter is available.

We will updated this report with all the additional testing results as they are sent in and comments are always appreciated.

EXAMPLE:

Below is the sample procedure for ATP Testing. Simply rub the swab on any surface you wish to test, no matter if your hand, kitchen counter, operating room table or bathroom sink, put the swab into the tube, squeeze the liquid end and then just insert into the meter and get an exact digital read out of the number. The results are almost immediate instead of waiting 24 hours for a culture media results. Note that using cultures for additional ID of specific problems is a good idea. The system also plugs in to provide permanent computer records.



RELIABILITY:

A copy is available of the Silliker Food Science Center Report on ATP Meters and the system we have chosen has been shown to provide the best results. It was this and our own in-house testing over the last two months that have guided our choice.

The bottom line is that every test from thousands of culture media testing in hospitals and outside laboratories, to the faster 3M specific culture tests that are so much handier to us and now to ATP Testing – every single test in dozens of countries and many facilities have proven over and over that nothing in the world provides the degree of cleanliness – and just as important – the real control and prevention of the risk of infections that Chrisal does.

We joke that the only other thing that would be as affective in cleaning as Chrisal would be sulfuric acid, but as well as our Chrisal PIP Products work, you can still safely drink our core probiotic product as a dietary supplement. However, when you think about it, it is a joke with very true meaning. Where else can you find a product like Chrisal PIP that you can drink and clean your skin with that also clean down to the microscopic level, prevents infections, get rid of odors and cleans better than anything else..!?

I look forward to your comments and input of additional ATP testing results from your locations.

LGM