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microBYTES™

A Hardy Diagnostics eNewsletter



November, 2017

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Micro Musings...



"She'll kiss the dog on the mouth,
but she won't drink out of my coffee cup!"

Pharmacy Microbiology - Compliance with USP <797>

Media Fill Challenge Testing





- Improved...No tile addition is needed!
- Detects hemolytic Group B Strep from the initial broth culture
- Provides results in as little as sixteen hours
- Found to be 100% sensitive and up to 100% specific in a recent study

[Learn more...](#)

[Request samples.](#)

[Place your order.](#)

* * *



Hardy offers a complete line of products for the pharmaceutical arena to comply with the new USP <797> guidelines.

[Learn more...](#)

* * * * *

Cannabis Testing



Hardy...your one stop shop for

**Food and Beverage
Microbiology**

Food Microbiology



Hardy offers many products for the microbiological testing of cannabis. [See the related products here...](#)

* * * * *

[See](#) our online catalog.

[View](#) a short video on what we can do for you.

[Request](#) our paper catalog.

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Resistance to β -Lactam Antibiotics

Hep A Strikes in San Diego

On September 1, 2017, San Diego County officials declared a state of emergency due to a major outbreak of Hepatitis A in the region.



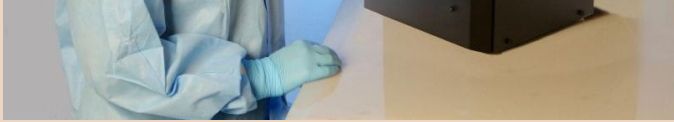
Since November 2016, 544 infections and 20 deaths have been reported. In comparison, for the last five years, San Diego County has recorded only 28 cases annually on average. Among the recent outbreak of reported cases, the majority have been homeless individuals and/or illicit drug users, including those who associate with them. The remaining population of reported cases has been from individuals lacking documentation.

Gram Staining made easy...



**No Mess!
No Stress!**





Hardy's GramPRO is the world's most consistent, repeatable, and reliable way to perform a Gram stain. Find out why...

[Watch a brief video about how easy it is to set up the GramPRO in your lab.](#)

[Learn more about the GramPRO 1.](#)

[Please contact me to discuss automated slide stainers.](#)

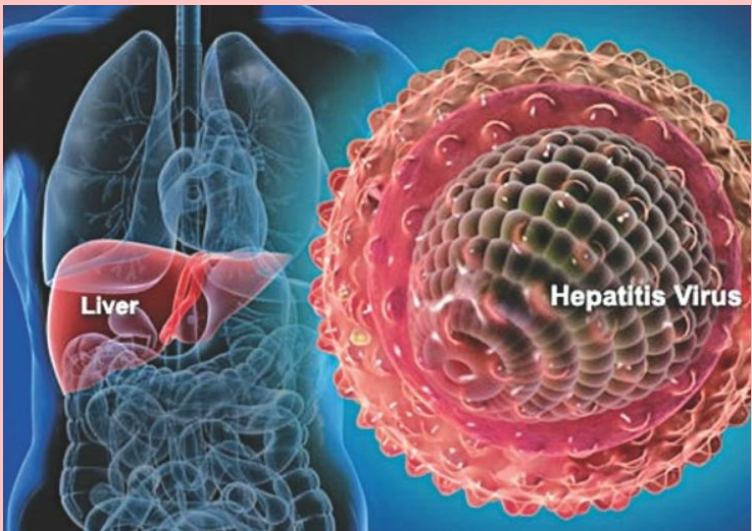
Showing 2,700 products!

Hardy's Culture Media Catalog



Hepatitis A (HAV) is a viral infection leading to inflammation of the liver, which is usually transmitted through contaminated food or water. It can also spread through person-to-person contact via the fecal-oral route or via direct contact with HAV infected bodily fluids as with sexual contact. HAV transmission has also been epidemiologically linked to infected food handlers.

When a person infected with the virus doesn't wash his or her hands after using the bathroom, everything in the environment that is contacted can become contaminated. When people touch a contaminated surface and fails to wash their hands before eating, or consumes contaminated food or drink, they, too, may become infected with the virus.



Symptoms include fever, fatigue, nausea, loss of appetite, yellowing of the eyes (jaundice), stomach pain, vomiting, dark urine, pale stools, and diarrhea. Some individuals will experience no symptoms whatsoever. Typically, symptoms usually last around two months with an expected full recovery for most healthy

individuals. However, symptoms may last as long as six months for individuals with suppressed immune systems or those with other health-related diseases. While symptoms may be acute and severe, the recommended treatment for infection usually involves ensuring adequate rest, increasing fluid intake, and practicing good nutrition. Antibodies produced as a result of infection last a lifetime and will protect against a re-infection.

Since HAV infection is primarily transmitted through poor hygiene of infected individuals, the methods employed to combat the spread of infection by health officials in San Diego County are to increase sanitation in public restrooms, deploy over 100 hand washing stations in public areas, disseminate information to increase

This 85 page booklet contains descriptions of the 2,700 products that Hardy manufactures for the microbiologist.

[View](#) the digital version.

[Send me](#) the paper version.

[Please have](#) an account rep contact me about a price quote.

* * *

Phraseology...

"Caught Red-Handed"



This phrase dates back to the 1400s. In Scotland there were laws against the illegal poaching of animals. If someone were caught with blood on their hands they were swiftly punished. The first documented mention of the "red hand" is from the Scottish Acts of Parliament of James I written in 1432.

* * * * *

What is Hardy all about?

[View](#) a short video to find out...



in public areas, disseminate information to increase public awareness, and vaccinate at-risk individuals. Other considerations include placing mobile showers and clothes washing stations in areas where homeless populations congregate. Due to an emergency declaration, additional State and Federal funding is likely to become available to support this effort.

[More information from the CDC.](#)

by Marcus Zuzow
R&D Technician
HARDY DIAGNOSTICS

* * *

*Trio Bas
Air Samplers*



Two heads are better than one!
Now with Bluetooth capability!

Brain teasers



A brain teaser a day...

Keeps the dementia away!

Begin the workout [here](#)...

Trio Bas from Orum International has a robust impact air sampler for every type of use. Single, double, or triple heads are available from Hardy Diagnostics.

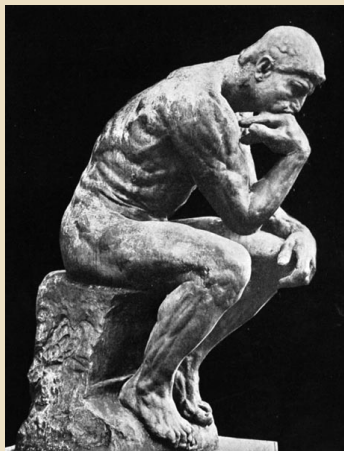
- [Watch a short video](#) that will explain why the Trio Bas is the best choice for your clean room.
- [See the complete Trio Bas catalog.](#)
- [Please have a sales rep contact me](#) about air samplers.

Testimonial from a Pharmaceutical Lab worker...

"The two heads of TRIO BAS DUO air sampler was one of the best investments during the last two years. The laboratory staff responsible of the bacteriological sampling is able to double the number of environmental microbial cycles per day. This means more efficiency and lower cost, together with the possibility to increase in the future the number of sampling in other areas of the premises."

* * *

Think about it...



*If you attempt to rob a bank, you won't have any trouble with rent/food bills for the next 10 years, whether or not you are successful.

* Do twins ever realize that one of them is unplanned?

*What if my dog only brings back my ball because he thinks I like throwing it?

* If you are a parent, do you ever wonder if your child is really yours?



Is it Viral or Bacterial?

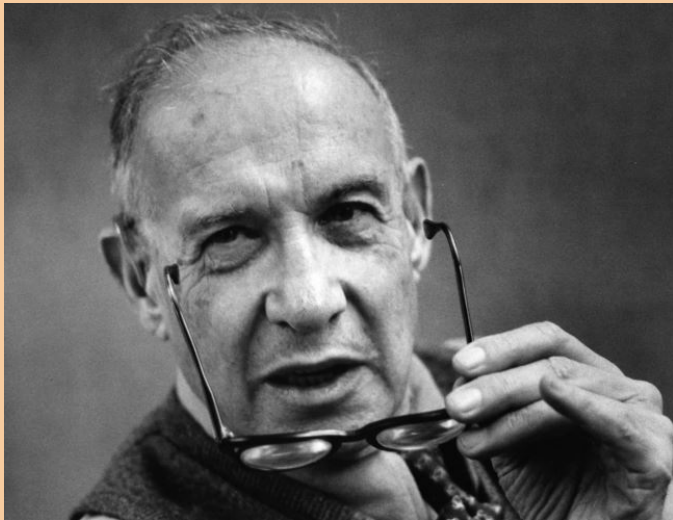
In an attempt to reduce the inappropriate use of antibiotics, researchers at the University of Rochester have developed a

* If poison expires, is it more poisonous, or is it no longer poisonous?

* Which letter is silent in the word "Scent," the S or the C?

* * *

Wisdom to Ponder...



Peter Drucker

1909 ~ 2005

Austrian born American Management guru, author, and consultant. Often described as the "Father of Modern Management."

"Management is doing things right; leadership is doing the right things."

"The best way to predict the future is to create it."

"Knowledge has to be improved, challenged, and increased constantly, or it vanishes."

"Most of what we call management consists of making it difficult for people to get their work done."

"There is nothing so useless as doing efficiently that which should not be done at all."

"People who don't take risks generally make

researchers at the University of Rochester have developed a tool that physicians can use to distinguish between a bacterial or viral infection in a patient that is suffering from an infection. Antibiotics are useless in treating viral infections; sadly, bacterial resistance is stimulated by the indiscriminate and often unnecessary use of antibiotics. Soon, it is hoped that these rapid tests will be available to ascertain if antibiotics are warranted for a particular patient's infection.



UNIVERSITY of
ROCHESTER

The researchers identified 11 genetic markers in blood that accurately distinguished between viral and bacterial infections.

For example, It is extremely difficult to interpret what's causing a respiratory tract infection, especially in very ill patients who come to the hospital with a high fever, cough, shortness of breath, and other concerning symptoms. It would be helpful to know if the cause is viral or bacterial. It would also be extremely useful in cases of meningitis and fevers of unknown origin.

To put this new method to the test, a group of 94 adults hospitalized with lower respiratory tract infections were recruited. The team gathered clinical data, took blood from each patient, and conducted a battery of microbiologic tests to determine which individuals had a bacterial infection (41 patients) and which had a non-bacterial or viral infection (53 patients). The researchers at the University of Rochester then used complex genetic and statistical analysis to pinpoint markers in the blood that correctly classified the patients with bacterial infections 80 to 90 percent of the time.

"Our genes react differently to a virus than they do to bacteria," said Thomas Mariani, a member of the Respiratory Pathogens Research Center (RPRC). "Rather than trying to detect the specific organism that's making an individual sick, we're using genetic data to help us determine what's affecting the patient and when an antibiotic is appropriate or not."

Ann Falsey, co-director of the RPRC, and Mariani say that the main limitation of their study is the small sample size and that the genetic classifiers selected from the study population may not prove to be universal to all patients.

According to the Centers for Disease Control and Prevention, antibiotic resistant bacteria cause at least 2 million infections and 23,000 deaths each year in the United States. The use and over-use of antibiotics is the single most important factor leading to antibiotic resistance around the world.

This new test, which is still under development, will help

"People who don't take risks generally make about two big mistakes a year. People who do take risks generally make about two big mistakes a year."

"Today knowledge has power. It controls access to opportunity and advancement."

"Follow effective action with quiet reflection. From the quiet reflection will come even more effective action."

"The most important thing in communication is hearing what isn't said."

"Only three things happen naturally in organizations: friction, confusion, and under-performance. Everything else requires leadership."

"If you want something new, you have to stop doing something old."

"Meetings are a symptom of bad organization. The fewer meetings the better."

"The key to greatness is to look for people's potential and spend time developing it."

* * *

Online Ordering Made Easy!



Watch a short video
to learn how easy it is
to order from Hardy on-line!

***Pick. . . Click. . .
And your order is on its way!***

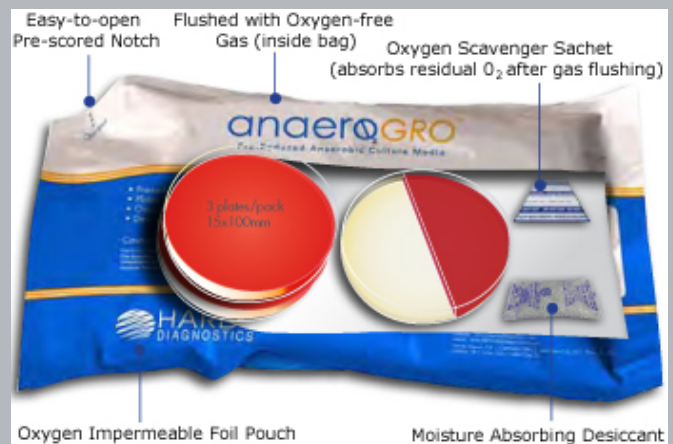
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This new test, which is still under development, will help prevent the needless use of antibiotics for viral infections, and thus reduce the chance of creating more drug resistant bacteria in the future.

Jay Hardy CLS, SM (NRCM)

Increase your recovery rate for anaerobes!

AnaeroGRO



Hardy's AnaeroGRO is packaged with an oxygen scavenger and flushed with nitrogen gas to ensure anaerobic conditions, leading to better recovery of anaerobic bacteria.

[See](#) the short video.

[Request](#) a free sample.

[Learn more](#) about the benefits of AnaeroGRO.

[View a catalog](#) of all our
anaerobic microbiology supplies.

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Did you know?



Hardy Diagnostics...

- Manufactures over 2,700 microbiology products for you to choose from.
- Stocks over 13,000 laboratory products for your "one stop shop" experience.
- Is celebrating its 37th year of serving microbiologists.
- Manufactures from three ISO certified factories; one in California, Ohio, and Texas.
- Maintains nine distribution centers in the U.S. for faster turn-around-time to your lab.
- Is ISO 13485 certified for the manufacture of medical devices to give you confidence in our products.
- Services over 10,000 labs and maintains a worldwide network of over 80 distributors.
- Is a 100% Employee-Owned company. *"If we act like we own the place...it's because we do!"*



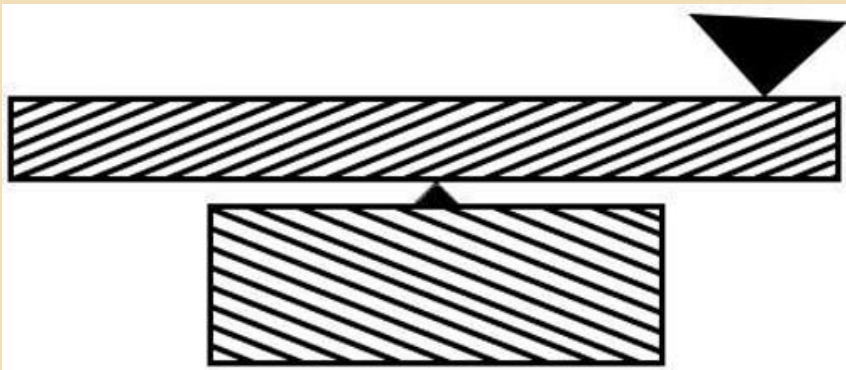
View our [Corporate Profile](#).

See the [Company Video](#).

Send a [message to the president](#).



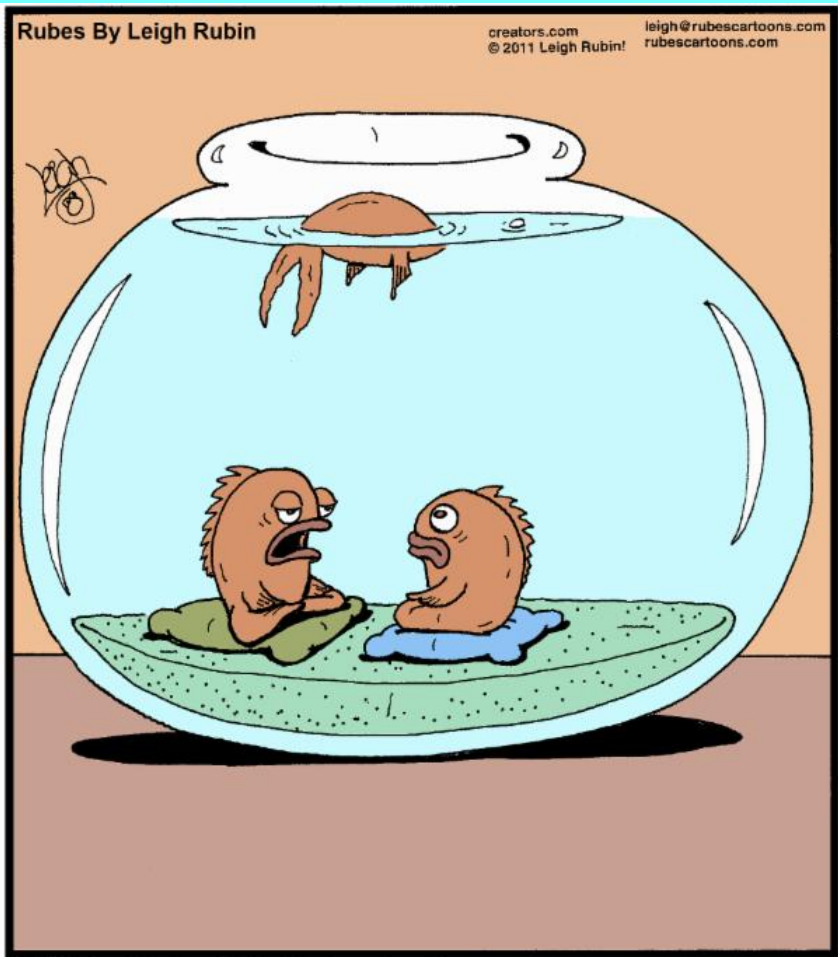
Optical oddities...



These two boxes are perfectly level.
The tilting is all in your mind!

*"Believe half of what you see
and none of what you hear."*
~ Benjamin Franklin ~

RUBES



"Death is not the end, my son, but simply a

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"As Hardy Diagnostics enters its 38th year of serving microbiologists in the laboratory, I would like to thank each of our customers for their support and loyalty. It truly has been a pleasure to serve you!

If there is any way we can improve or expand upon our service, would you please let me know?"

Jay Hardy, CLS, SM(NRCM)
President
HARDY DIAGNOSTICS

[Send Jay a message...](#)



physical transcendence from one bowl to the next."

[Find more](#)

Want to [book Leigh](#) as a speaker at your next event?



If my memory gets any worse,
I'll soon be planning my
own surprise party!

Warning:
**PUN ZONE
AHEAD**





For your ordering convenience!

Available at
amazon

Did you know that of the 2,700 products
that Hardy makes, 700 of them are now
available on Amazon.



Discover some of them here...

* Ever eaten a duck egg before? It's really not all it's
quacked up to be...

* Did you hear about the guy that got fired from the
orange juice factory?
He couldn't concentrate

* Why did the blind man fall into a hole that was being
dug for water?
Because he didn't see that well!

* How many Einsteins does it take to screw in a light
bulb?
Relatively few.

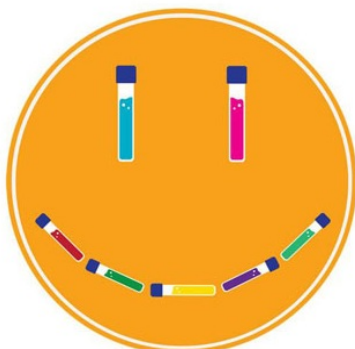
* What is the nuclear physicists favorite dinner?
Fission Chips

#



*Good moms let you lick
the frosting
off the beaters.*

Great moms turn it off first



Find your happy medium



Great moms turn it off first.

* * * *



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