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microBYTES™

A Hardy Diagnostics eNewsletter

 **HARDY**
DIAGNOSTICS
a culture of service...

June, 2017

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Micro Musings...



"HE DOESN'T KNOW ZILCH . BUT HE MAKES THE
BEST COFFEE IN THE BUSINESS ."

*For the detection
of Group B Strep...*

Carrot Broth



- Detects hemolytic Group B Strep from the initial broth culture.

Parasites in Paradise



- Provides results in as little as six hours.
- Found to be 100% sensitive and 100% specific in a recent study.

[Learn more...](#)

[View a short video.](#)

[Request samples.](#)

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* * *



Rat lungworm disease is an infectious disease that directly affects the brain and spinal cord of humans. This disease is caused by the parasite *Angiostrongylus cantonensis*.

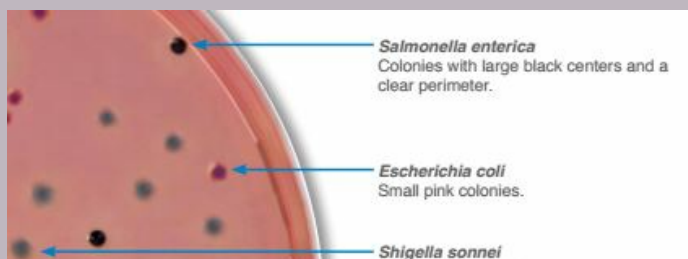
This infectious disease has been considered to be endemic in Hawaii for the last 50 years. Within the last three months, there have been six reported cases of rat lungworm disease on Maui and the Big Island (Hawaii). None of these cases have resulted in death thus far; however, three more possible cases of this disease are being investigated in Maui, and one on Hawaii. Most of the cases have been residents of the islands, with only two reported cases affecting visitors. On average, the state of Hawaii reports one to nine cases of rat lungworm disease per year. Since the beginning of 2017, they have already had nine confirmed cases of the disease, a drastic increase from the past. Since 2007, there have been two related deaths.

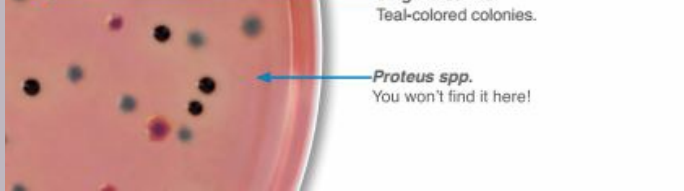
There is no confirmed source for how each person is infected with rat lungworm disease; however, it is believed the parasite comes from the ingestion of raw or undercooked snails and slugs. The snails or slugs can be found on unwashed lettuce or other produce and go unnoticed by the person consuming the seemingly safe food. Although less common, the parasite can also be transmitted by infected crabs, shrimp, and frogs.

The life cycle begins when rats ingest larvae that produce eggs, which hatch in their lungs. The larvae are then passed into the rat's feces. The parasite is then ingested by slugs and snails. Once a human ingests the snail that has the parasite, it is unable to complete its life cycle. [Click here](#) for information on the life cycle.

For the detection
of *Salmonella* and *Shigella*,
without interference from *Proteus*!

HardyCHROM SS NoPRO





- Detects Salmonella and Shigella by colony color change.
- Interfering Proteus will not grow!
- Eliminates needless work-ups.
- Provides a far better way to screen stool specimens than HE Agar.

[Learn more...](#)

[Request samples.](#)

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* * *



The parasite will eventually die, so usually no treatment is needed; however before they do, they can cause problems if they travel to the brain. If the parasite is able to get to the brain it will cause eosinophilic meningitis. Meningitis will cause a swelling of the thin membrane that covers the spinal cord and the brain. This meningitis can be treated with anti-parasitic drugs, cortical steroids, and supportive care. Although rare, some cases of this could lead to coma or death of the patient.

There is no blood test for this disease. Diagnosis is based on symptoms, patient history, and eosinophilia in the blood or spinal fluid.

Most often in adults, symptoms begin with a headache, stiff neck, and some nausea and vomiting. Children often have accompanying abdominal pain. Illness from this parasite can last from two weeks up to two months. The incubation period for this disease is one to three weeks, but it could have a potential incubation period of a single day to as much as six weeks.

Prevention of this parasitic infectious disease involves the proper cleaning and cooking of food, especially vegetables. The state of Hawaii is encouraging their residents to inspect and diligently wash their leafy greens and watch their children when they are playing outside. The Hawaii State Department of Health has also gone as far to recommend against the handling of snails and slugs with bare hands.

More information about prevention and treatment can be found on the [CDC website](#).

by Haley Hoffman
Technical Support Representative, Hardy Diagnostics

Ref: <http://www.cnn.com/2017/04/10/health/hawaii-rat-lungworm-disease-parasite/>
<http://nbc4i.com/2017/04/10/concern-grows-after-cases-of-brain-invading-parasite-increases-in-hawaii/>

Load 80 slides at a time!



No Mess!

No Stress!



C diff Banana Broth

*With nearly 500,000
infections annually...*

**Are you doing enough to
control C. diff?**

Hardy's GramPRO 80 will rapidly stain your smears and get it right every time! With the GramPRO 80, you can load up to 80 slides at a time, while it processes about 60 slides per hour. Also, there is a STAT function so you can easily insert a slide that needs to be done right away.

Our patented technology judges the thickness of the smear and adjusts the decolorization step to perfection.

Not only that, there are no messy clean-up or tedious maintenance procedures.

For smaller labs, the GramPRO 1 will accept and process one slide to perfection within four minutes.

[Find out more about all Hardy stainers.](#)

[Watch a brief video on GramPRO 80.](#)

[Watch a brief video on GramPRO 1.](#)

[View the brochure on all of Hardy's automated stainers.](#)

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

Showing 2,700 products!

Hardy's Culture Media Catalog



Hardy announces a new broth medium for the detection of *Clostridium difficile* bacteria and spores. This new medium is capable of saving hospitals many thousands of dollars. It is useful in monitoring the efficacy of cleaning procedures used in patient rooms. Positives turn yellow!

This is the first and only culture medium designed for the detection of *C. difficile* and its spores on surfaces in a hospital setting. The specificity was found to be 100% in a recent study (see reference below). No special equipment or anaerobic supplies are needed! Obtain results in as little as 24 hours!



[Learn More](#)



Hardy is proud to announce its 2017 catalog of all culture media offerings.

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.

* * *

Learn More...

View a short video explaining how C. diff Banana Broth can increase the level of patient safety and save your hospital many thousands of dollars!

See the catalog listing.

See the brochure.

Request a sample for your evaluation.

View the Study showing 100% specificity (no false positives).

* * * * *





Detect by color!

Hardy Diagnostics was the first company to introduce chromogenic media in America in 1996.

[Click Here](#) to view Hardy's complete line of chromogenic media.



Every 22 minutes, someone will be killed or maimed by a land mine.

Can *E. coli* be enlisted to detect some of the 100 million buried land mines in the world?

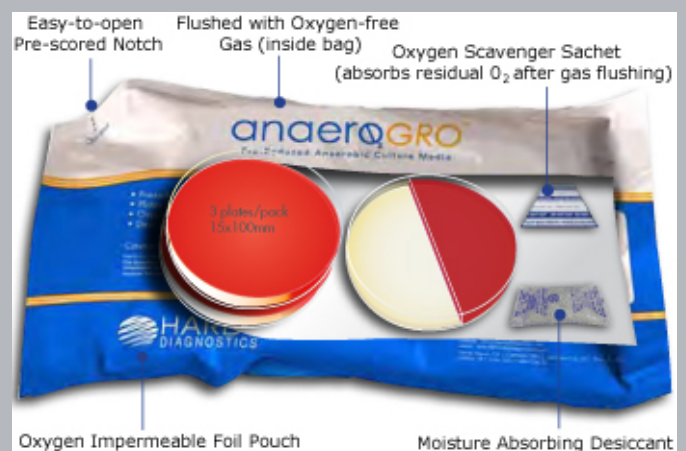
[Find out](#)



* * * * *

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.](#)

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

* * * * *

Above is an army poster from 1943 addressed to the troops in the South Pacific area. During the war, over 60% of the troops contracted malaria at some point. In 1942, almost 48,000 cases were reported.

Although the preferred treatment and prophylaxis was Quinine from the cinchona tree, the Japanese controlled its production and distribution. Consequently, an alternative drug, Atabrine, had to be used in spite of its many side effects including nausea, headaches and diarrhea; thus leading to low compliance among the troops.

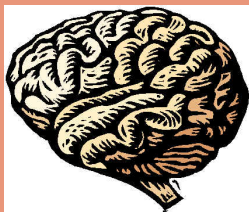
What is Hardy all about?

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



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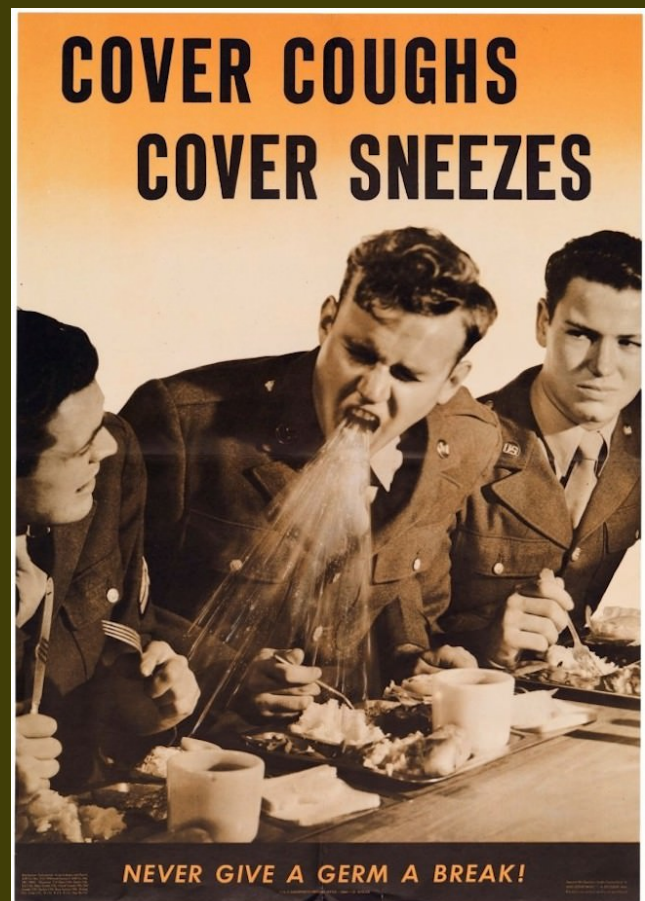
Brainteasers

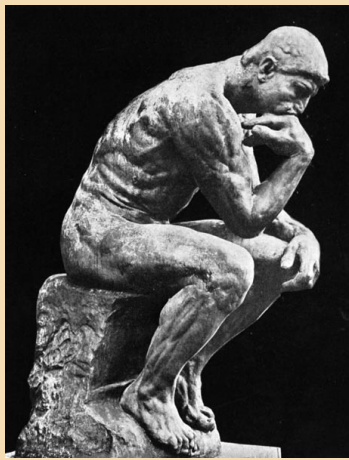


Take a chance on some Brain Strain.

[Enter Here...](#)

Think about it...





From the Office for Emergency Management
and War Information, 1943 to 1945

* * * * *

Trio Bas Air Samplers

- * If electricity comes from electrons, does morality come from morons?
- * Do the Alphabet song and Twinkle, Twinkle Little Star have the same tune?
- * Why did you just try singing the two songs above?
- * Is there ever a day that mattresses are not on sale?
- * Whose idea was it to put an 'S' in the word 'lisp'?

* * *

Wisdom to Ponder...



Two heads are better than one!

Now with Bluetooth capability!

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](#)

Jeff Bezos

American businessman, second richest person in the world, founder of Amazon, the world's biggest online retailer. Has a dual degree in computer science and electrical engineering from Princeton University.

"I'm a genetic optimist."

"What's dangerous is not to evolve."

"Life's too short to hang out with people who aren't resourceful."

"The best customer service is if the customer doesn't need to call you, doesn't need to talk to you. It just works."

"If you can't tolerate critics, don't do anything new or interesting."

"Strip malls are history."

"I think the definition of a book is changing."

"I don't know about you, but most of my exchanges with cashiers are not that meaningful."

"I believe you have to be willing to be misunderstood if you're going to innovate."

"A brand for a company is like a reputation for a person. You earn reputation by trying to do hard things well."



* * *

• [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."

* * *

Optical oddities...



An African village?

Tilt your head to the left for a different outlook...

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

~ Benjamin Franklin ~

RUBES

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!*

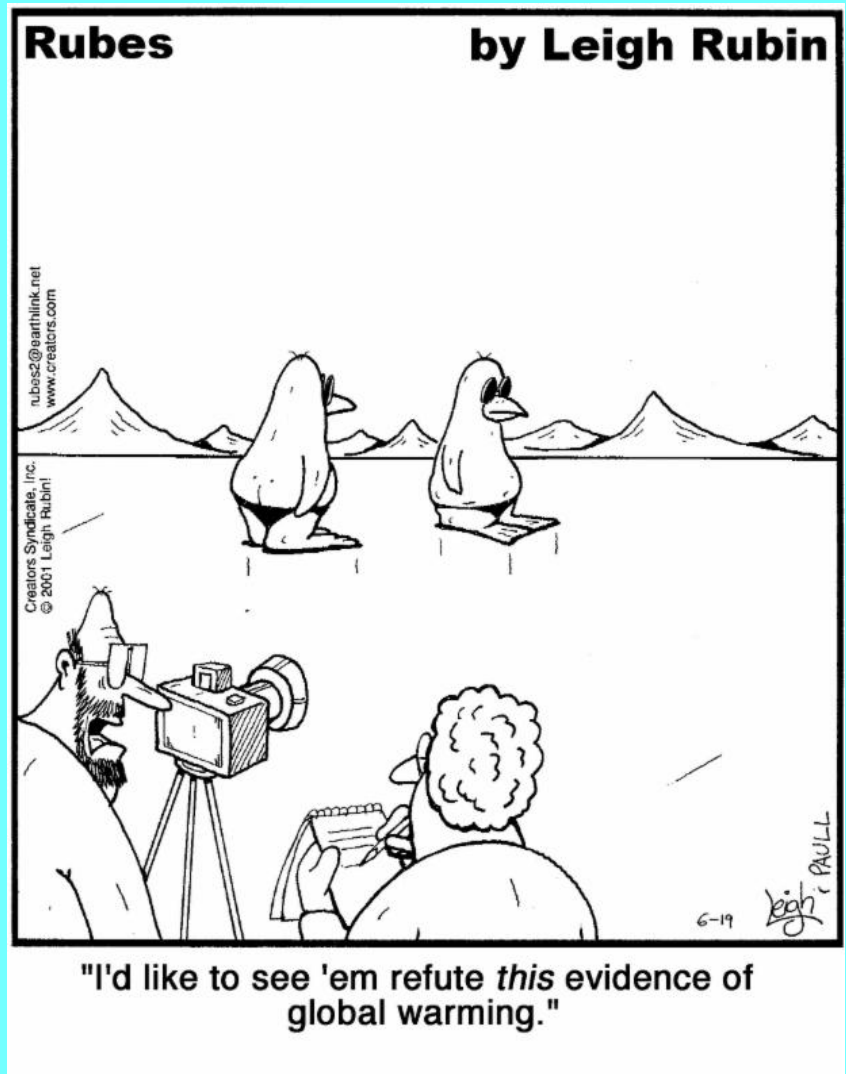
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Did you know?



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



[Find more](#)

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

• 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](#).



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A Hardy Diagnostics eNewsletter

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Newsletter at home?
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Want to view past issues
of MicroBytes?
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*Identification by
color and fluorescence!*

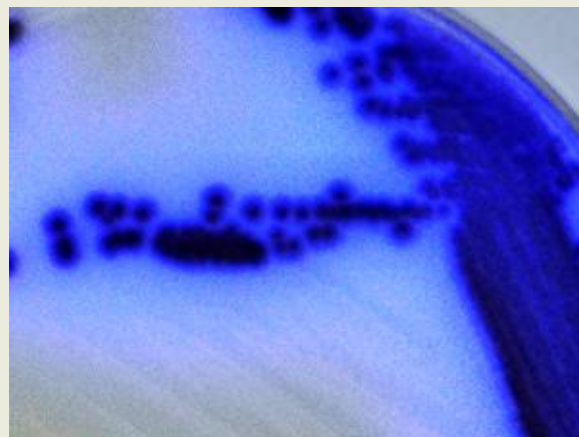


- Detects and differentiates all three pathogenic Vibrio species: *V. vulnificus*, *V. cholerae*, *V. parahaemolyticus*.
- Avoid the high costs of molecular methods!

[Learn more...](#)

[Place your order](#)

[Request for samples](#)



Vibrio vulnificus colonies shown fluorescing
under a UV light on HardyCHROM Vibrio Agar

Choose the comfortable option!

**ComfortPRO
Labcoats**

At Hardy Diagnostics enters its 37th 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...](#)



- Three pockets: two hip and one breast
- Laminated 3-ply for better protection
- Knit collar and knit cuffs for comfort
- Snap closures
- Available in white or blue
- Five sizes available: Small to XXL
- Inexpensive and disposable

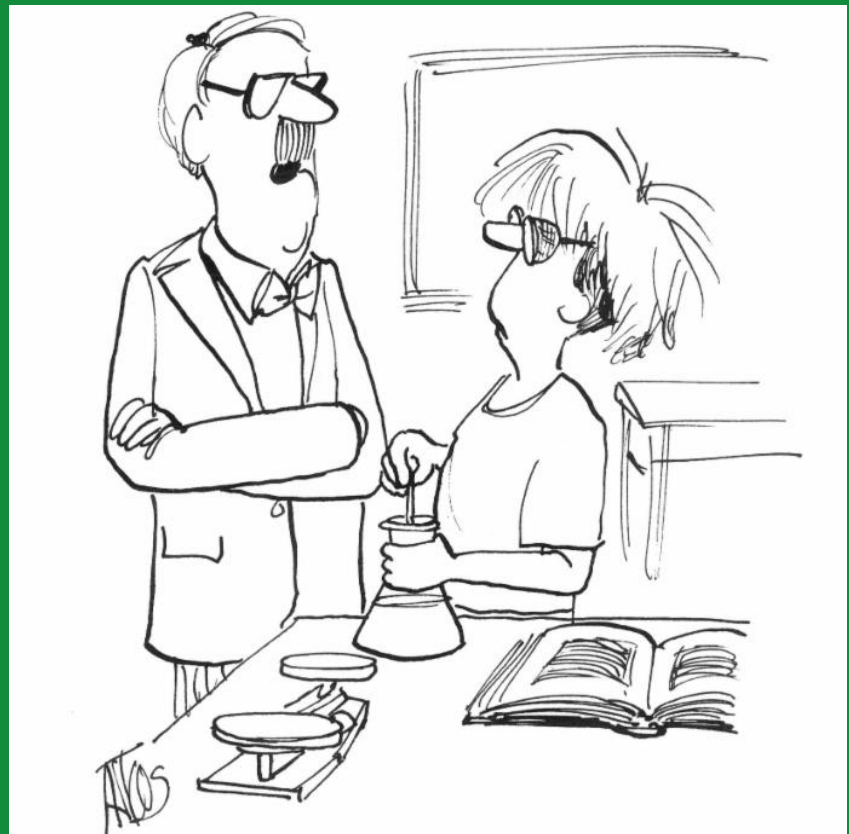
[View](#) the brochure.

[Request](#) a sample.

*"I always choose a lazy person to do a hard job.
Because a lazy person will find an easy way to do it."*

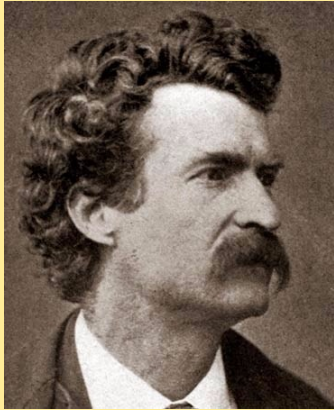


Bill Gates



Find your happy medium

HARDY
DIAGNOSTICS



"Keep away from people who try to belittle your ambitions.

Small people always do that, but the really great make you feel that you, too, can become great."

Mark Twain

"Your chemistry grade isn't high enough for you to wear your hair that way."

Warning:

**PUN ZONE
AHEAD**



- * A good waiter really brings a lot to the table.
- * I was addicted to the hokey pokey, but I turned myself around.
- * I went to the Air and Space Museum, but there was nothing there.
- * Hold the door open for a clown. It's always a nice jester.

#

I named my dog "5 Miles"



So I could tell my friends
that I walk 5 miles every day!

#

