Perfect for flu season...

UTM®
Universal Transport Medium

Transport medium for Viruses, Chlamydia, Mycoplasma, and Ureaplasma

Flocked swab for better absorption and release.
Room temperature storage

Click here to learn more about UTM
Click here to see our complete Influenza Catalog.

Micro Musings...

"The great thing about studying tiny things is that no one knows what the hell you're doing."

Coronavirus Outbreak Spreads to the US

The U.S. has five confirmed cases of the new virus from China, all among people who traveled to the city at the center of the outbreak, health officials said on January 25, 2020.

Now there's an easy way to detect carbapenem resistance...

CARBA 5
Hardy's new Carba 5 detects the five major bacterial enzymes of carbapenem resistance. This new lateral flow device gives you results in only 15 minutes at a price much much lower than PCR!

Watch a short video...
Learn more...
Press release...
Order here...

Now with improved secure cap!

CryoSavers for long term freezer storage

Learn about our complete selection of freezer vials.
View the CryoSaver catalog.

Control Organisms

The virus can cause fever, coughing, wheezing and pneumonia. It is a member of the coronavirus family that's a close cousin to the deadly SARS and MERS viruses that have caused outbreaks in the past.

The number of confirmed coronavirus cases in China ticked up to 2,051 on January 26th as government authorities struggles to contain the spread of the illness that has now killed 56 people.

The Centers for Disease Control and Prevention expects many more Americans to be diagnosed with the newly discovered virus. Coronavirus is believed to have an incubation period of about two weeks, as worldwide the number of confirmed cases continues to increase rapidly. The CDC is screening passengers on direct and connecting flights from Wuhan, China at five major airports in Atlanta, Chicago, New York City, San Francisco and Los Angeles.

The CDC has recently published guidelines for specimen collection and testing for coronavirus. For culture and PCR testing a viral transport media is recommended.
Hardy offers a complete selection of over 900 ATCC derived microorganisms for use in Quality Control procedures.

Learn more...

Zerbaxa and Avycaz now available!

New Antibiotics

KB Disks Now Available from Hardy

- Imipenem/Relebactam, "Recarbio" (Z9441, Z9445)
- Eravacycline, "Xerava" (Z9401, Z9405)
- Plazomicin, "Zemdri" (Z9331)
- Ceftazidime/Avibactam, "Avycaz" (Z9351, Z9355)
- Ceftolozane/Tazobactam, "Zerbaxa" (Z9341, Z9345)
- Delafloxacin, "Baxdela" (Z9301, Z9305)
- Meropenem/Vaborbactam, "Vabomere" (Z9321, Z9325)
- Omadacycline, "Nuzyra" (Z9411)
- Lefamulin, "Xenleta" (Z9451, Z9455)

HardyDisks:
- Are compatible with all BD Disk dispensers.
- Feature "last disk recognition" so you know when a refill is needed.
- Include all traditional and newer antibiotics.

Learn more about HardyDisks.

View our AST mini-catalog.

See all our products for detecting resistance.

See our complete Chromogenic product offering.

View the online catalog.

Request a paper catalog.

Request free samples.

Order HardyCHROM CRE.

PathFinder Listeria

"The green glow will let you know…"

Hardy’s new test for environmental Listeria will eliminate most false positives and quickly give you results, as seen by a green glow!

Learn more…

Request samples…

Order now…

Support for Vaccines is Waning

For the detection of Group B Strep...

Carrot Broth One-Step

positive
Every test is an opportunity for a new life to thrive and grow...

- Improved...No tile addition 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

Watch a short video to learn more...

Request samples.

Place your order.

How is Carrot Broth making a difference?

Strange ads from the past...

A new Gallup survey shows that support for vaccination in the United States is declining, particularly among parents of young children.

The survey, conducted in December 2019, shows that 84% of Americans feel it's extremely or very important that parents vaccinate their children. This matches Gallup's prior reading in 2015, but is down 10% from 2001, when 94% of Americans felt this way.

"Widespread public support for childhood vaccines creates a wall preventing contagious diseases like measles and polio from spreading in the US, but a breach in that wall appeared in 2015 and it has not been repaired," Gallup said in a news release.

Among parents of children younger than 18 years old, 77% feel vaccination is important in 2019, down from 92% in 2001.

Despite the well-publicized yet controversial claim that vaccines cause autism, 10% of US adults still believe that vaccines cause autism in children, marking a modest increase from 6% in 2015. Nearly half (45%) do not think vaccines cause autism, up modestly from 41% who said the same almost 5 years ago, whereas 46% still aren't sure. In 2001, 94% of Gallup survey respondents were unsure whether vaccines cause autism.

Reference: 1

Optical Oddities

Can you find all seven faces?

For the detection of Gardnerella vaginalis
A cause for great concern:

Emerging Pan-resistant Candida auris

_Candida auris_ was first described in 2009 and was reported in the United States in 2016.(1) It is a member of a growing group of yeasts that can cause candidiasis, yeast infections that are normally of little consequence, and treatable through a number of anti-fungal medications. Nosocomial candidiasis, however, can easily infect ports installed in the body for medical procedures, and then progress into candidemia, a potentially deadly blood infection.(2)

_Candida auris_ is remarkable in that it is often drug resistant and difficult to identify without specific technologies that are not readily available in the usual clinical setting, namely PCR and MALDI-TOF mass spectrometry.(3)

In June 2019, a clinical outbreak of _Candida auris_ was reported in New York. Of more than 800 patients, three were confirmed to have _Candida auris_ infections resistant to all three classes of commonly prescribed anti-fungal medications: fluconazole, amphotericin B, and echinocandins. All three patients had Candida infections that exhibited fluconazole resistance and two were found to be amphotericin B resistant. None had received echinocandins prior to their diagnosis of being infected with _Candida auris_. Indeed, isolates from all patients showed an initial sensitivity to echinocandin therapy, and were thus treated. Most alarmingly, resistance was not detected until after completion of echinocandin treatment, indicating that the patient isolates became pan-resistant to all three medications during therapy. Thankfully, investigators found no indications of successful patient-to-patient transmission of this pan-resistant strain after the study was completed.(1)

The emergence of pan-resistant _Candida auris_ is concerning in that, with traditional testing methods, it is easily mistaken for other, more common Candida species, even on differential media.(4) It can cause invasive candidiasis in at-risk populations, contribute to widespread Candida outbreaks, and progress to candidemia just as readily. However, as a potentially multi-drug-resistant microorganism, each of the above situations takes on an increased urgency and cause for great concern. Even now, the emergence of pan-resistant _Candida auris_ is a cause for great concern.
four years after the New York outbreak was identified, the fact that pan-resistant *Candida auris* isolates appear so rare should be of little consolation.

As of December 11 of 2019, the CDC said 941 confirmed and probable *C. auris* cases have been reported in 13 states, with an additional 1,830 patients found to be colonized with the multidrug-resistant fungus. Most of the cases have been detected in the New York City area, New Jersey, and the Chicago area.

The appearance of *C. auris* on HardyCHROM Candida will show a white smooth colony that will often change to pink at 48 to 72 hours. Unfortunately there are other species of Candida that will appear this way.

The technology required for *Candida auris* identification must be advanced. Even with the promising development of a new class of anti-fungal medications and more prudent anti-fungal prescription practices by healthcare professionals, the average healthcare facility must be able to perform rapid and accurate identification. Until this happens, our healthcare system will continue losing time, money, and lives to *Candida auris* outbreaks that have caused up to 60% mortality rates in other healthcare facilities around the world.(5)

References: 1, 2, 3, 4, 5

by David Cochran
Technical Support Specialist
HARDY DIAGNOSTICS

* * * * *

Phraseology...

"Whipper Snapper"

'Whipper snappers' were known by various names, all of them derived from the habit of lazy young people hanging around snapping whips to pass the time.

Originally these ne'er-do-wells were known as 'whip snappers.' This term merged with an existing 17th century term for street rogues - 'snipper snappers,' to become 'whipper snapper.'

The meaning of 'whipper snapper' has altered over the years, originally referring to a young man with no apparent get up and go, to be applied to a youngster with an excess of both ambition and impudence.

Those that are are described by this term are probably too young and naive to know what it means.

* * * * *

Researchers found that certain filtering systems increased the bacterial counts by 10,000 times, compared to the tap water that was being filtered!

In a study conducted by ED. Daschner, et. Al., researchers set out to investigate the efficacy of commercial filters in their ability to change the microbial quality of water (2). In this study, filters from the reputable brand, Brita, were evaluated in households and under laboratory conditions.

In 64% of households in the field study, filtered water had significantly higher bacterial counts-upwards of 6,000 CFU/mL when compared to tap water from the same household. Even under the controlled environment of laboratory conditions, the same phenomenon was observed. Filtered water from four of six filters had bacterial counts that exceeded that of tap water from the same facility.

More specifically, samples exhibited higher counts by the fourth day of use at room temperature and on the 15th day of use at 4°C when observed under controlled conditions (2). In some cases, the bacterial count of the filtered water was noted to be up to 10,000 times greater than that of tap water.

Further analysis of the bacterial counts identified significant isolates from filtered water, including *Aeromonas hydrophila*, *Pseudomonas cepacia*, *Pseudomonas fluorescens*, *Pseudomonas putida*, *Sphingomonas paucimobilis*, *Acinetobacter lwoffii*, and coagulase-negative staphylococci.

Many commercially available filters, including Brita filters, claim their products may be used for up to 60 days following the first use. Evidently, these filters can lose their effectiveness in a little as four days, and actually creates higher bacterial counts than in the water it is filtering.

Obviously, more work needs to be done to ensure the safety of "filtered" water.

References: 1, 2, 3

Andrew Kravariotis
R&D Biochemist
HARDY DIAGNOSTICS

* * *

Trio Bas
Air Samplers

Two heads are better than one!
Now with Bluetooth capability!
Wisdom to Ponder...

Kobe Bryant
1978 ~ 2020

An American professional basketball player. Bryant played his entire 20-season career in the National Basketball Association (NBA) with the Los Angeles Lakers. He entered the NBA directly from high school and won five NBA championships. Bryant was an 18-time All-Star, 15-time member of the All-NBA Team, 12-time member of the All-Defensive Team, and the 2008 NBA Most Valuable Player (MVP). Widely regarded as one of the greatest basketball players of all time.

"Everything negative - pressure, challenges - is all an opportunity for me to rise."

"I have self-doubt. I have insecurity. I have fear of failure. I have nights when I show up at the arena and I'm like, 'My back hurts, my feet hurt, my knees hurt. I don't have it. I just want to chill.' We all have self-doubt. You don't deny it, but you also don't capitulate to it. You embrace it."

"The topic of leadership is a touchy one. A lot of leaders fail because they don't have the bravery to touch that nerve or strike that chord. Throughout my years, I haven't had that fear."

"My parents are my backbone. Still are. They're the only group that will support you if you score zero or you score 40."

"I'm chasing perfection."

"Sports are such a great teacher. I think of everything they've taught me: camaraderie, humility, how to resolve differences."

"One thing you gotta know about me is I have absolutely no filter. I have no problem saying what the hell I think of someone."

"I can't relate to lazy people. We don't speak the same language. I don't understand you. I don't want to understand you."one."

"The most important thing is to try and inspire people so that they can be great in whatever they want to do."

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 we made during the last two years. The laboratory staff, which is responsible for 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 the number of sampling in other areas of the premises in the future."

Do you perform colony counts?

Compact Dry

- Self-diffusing of sample - No spreader needed
- Room temperature storage
- Rigid plate with removable lid
- Stackable plates to conserve space
- Many media formulas available

Learn more...

Request Samples of Compact Dry
Now there's a quick way to identify *Candida glabrata*!

Learn more...

---

**Rapid ID of GC**

Need to confirm *Neisseria gonorrhoeae*?

Here's a quick and easy way...

CarboFerm will also identify *N. meningitidis* and *Moraxella catarrhalis*.

---

**What is Hardy all about?**

*View a short video to find out...*

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Did you know Hardy Diagnostics is 100% owned by its employees?

---

**Stool cultures with no interference from Proteus!**

**HardyCHROM SS NoPRO**

---

NOTE: New study shows **50% less colony work-ups**, for an overall **cost savings of 80%**!

Find out how you can save also...

- Reduces costly false-positive work-ups due to *Proteus* spp.!
- Less colony picking, subculturing, and identifications
- No need for TSI, LIA, or KIA tubes
- Reduces use of expensive ID cards
- Reduces the number of plates for primary stool setup
- Increased specificity
- Easy Identification by patented chromogenic reaction
- The only chromogenic media that will detect both *Salmonella* and *Shigella*

Learn more about HardyCHROM SS NoPRO.

Place your order now.

Try out some free samples.

---

**Brainteasers**
A work-out for your mind.

Begins here ... 

Think about it...

* Wouldn't it be wonderful if we could put ourselves in the dryer for ten minutes, then come out wrinkle-free and three sizes smaller?

* I talk to myself, because there are times I need expert advice.

* Lately, I've noticed people my age are so much older than me.

* Why do fat chance and slim chance mean the same thing?

* Being a pessimist isn't so bad...I'm either right or pleasantly surprised


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Subscribe to our YouTube Channel!

Learn about all the innovative Hardy products to help you save time and money!

Want to book Leigh as a speaker at your next event?

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Warning:

PUN ZONE AHEAD
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!

***

*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 40th year of serving microbiologists.
- Manufactures from two ISO certified factories; one in California and one in Ohio.
- 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.

---

~ The astronaut ran away and disappeared...he just needed some space.

~ I went to Air and Space Museum...but there was nothing there!

~ What the guy said when his sister stepped on his foot: That’s Mitosis!

~ My fear of moving stairs is escalating.

~ Did you hear about the toddler that was put in jail for resisting a rest.

###

Over 250 formulas that are used by thousands of labs daily.

Watch a short video about CRITERION’s features.

Learn more about CRITERION powdered culture media.

Request for a free two liter sample for your lab.

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StrepPRO
Rapid latex agglutination

Type your Streps within minutes!

Watch a short video

Learn more about StrepPRO

See all our Rapid Tests
"I before E"

Except when your foreign neighbor Keith received eight counterfeit beige sleighs from feisty caffeinated weightlifters.

Now that’s weird.

"My religion consists of a humble admiration of the illimitable superior spirit who reveals himself in the slight details we are able to perceive with our frail and feeble mind."

Albert Einstein

"True terror is to wake up one morning and discover that your high school class is running the country."

Kurt Vonnegut

For your ordering convenience!

Did you know that of the 2,700 products that Hardy makes, 700 of them are now available on Amazon?
"As Hardy Diagnostics approaches its 40th 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