

August 2026

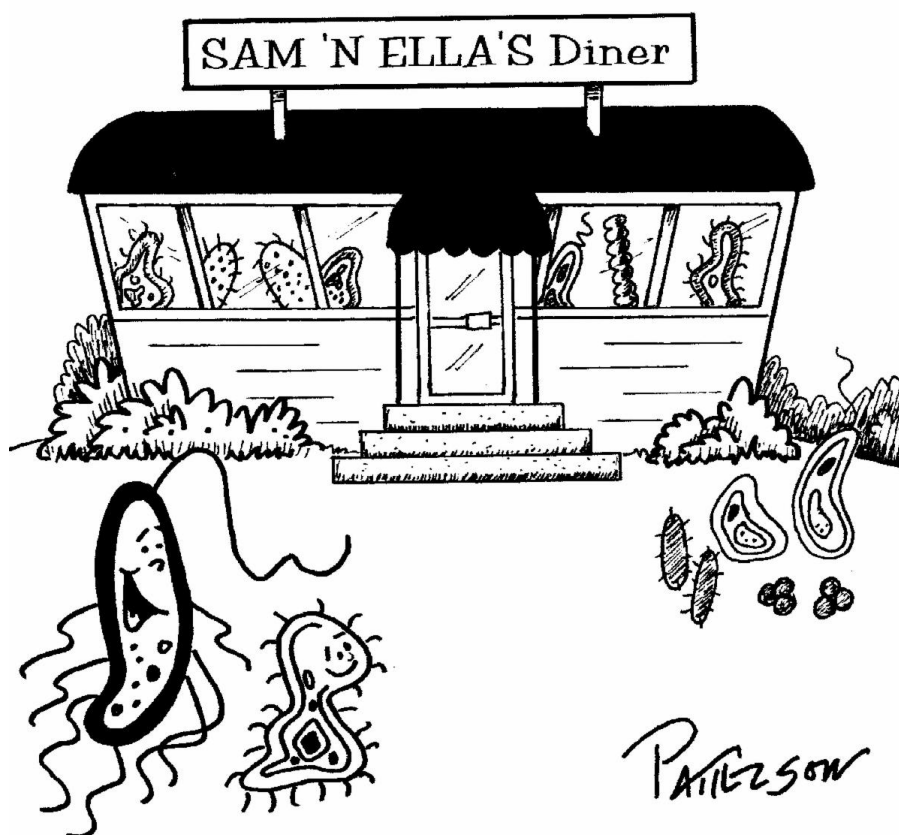
A newsletter of, by, and for microbiologists.

micro**BYTES**

NEWSLETTER



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“Hey! – This looks like a good place!”

In this issue...

- Can sweeteners damage your microbiome?
- Benefits of Gotu Kola on your microbiome
- Product Spotlight - BCYE for Legionella
- *Candida auris* - now there's an easy way to ID
- Outbreak of Cyclospora - Update
- Outbreak of Salmonella from eggs
- Franklin Stahl - discoverer of DNA replication
- Upcoming trade shows and conferences
- Phraseology: "POTLUCK"
- Who is your Sales Rep?
- HardyCHROM chromogenic media list
- **Free** lab tutorial videos on YouTube from Hardy
- What is it? Take a guess and see if you're right!
- Wisdom to ponder from Homer
- Brainteasers: Your cranial stimulant



PREVIOUS NEWSLETTERS



What is Hardy Diagnostics all about?

Hardy Diagnostics has been serving microbiologists with reliable and innovative products for 46 years.

Watch a two minute video about how your media is made...[View here...](#)

Read a short article in *Company Week* that explains what makes Hardy Diagnostics different...[Find out...](#)

Microbiology in the News....

Cyclospora Outbreak Update



August 2026 - Cyclosporiasis cases have surged across 45 U.S. states, with over 6,700 lab-confirmed infections since May 1. This major outbreak is linked to Taylor Farms iceberg lettuce from Mexico that was sold mostly to Taco Bell.

Cases have now been recorded in 45 states, up from 41 states the previous week. More than 11,500 additional probable cases, mainly in Michigan and Ohio, remain unconfirmed by laboratories.

There have been 423 hospitalizations and no deaths associated with the outbreak. After an incubation of 2 days to 2 weeks, the main symptom is described as "explosive" diarrhea. The parasite is resistant to routine chemical disinfectants. The treatment drug of choice is Trimethoprim-Sulfamethoxazole (aka Septra, Bactrim, Cotrim, TMP-SMX). Anti-parasitic drugs, such as Ivermectin, are not effective. Lab ID can be accomplished with stool microscopy (acid fast stain, modified safranin, or UV Fluorescence) or PCR.



Salmonella Outbreak from Eggs

August 2026 - Nearly 100 people from 17 states have been infected with *Salmonella enteritidis*, leading to over 19 million eggs being recalled. There have been 26 hospitalizations but no deaths reported. The source was a poultry farm in Texas. Because egg shells are porous, Salmonella can penetrate the eggshell pores and cause

infection, which is why all eggs must be thoroughly cooked to 160 deg F, especially those from over-crowded confined feeding operations. Although most people recover quickly and do not require antibiotics, infections can lead to serious dehydration, septicemia, bacteremia, meningitis, arthritis, and other invasive infections.

Phraseology

"Potluck"



The term “potluck” is believed to date back to the 16th century, when Thomas Nashe wrote in his stage drama *Summer’s Last Will and Testament*: “A good fellow is a good fellow, though he have never a penny in his purse. We had but even a *pot-luck*, a little to moisten our lips, and no more.”

As far back as the 1500s, men and women were known to save their leftover food should an unexpected guest arrive at their door. Excess food would be stored in a pot and kept warm in order to serve a guest on short notice. That guest was left to the “luck of the pot” should he or she seek something to eat. The practice was particularly common in medieval times.

Over the course of the 19th and early 20th century, church potlucks evolved in American immigrant communities. By the 1930s, scenes such as those described in the 1840s of Norwegian farmers' wives bringing together multitudes of dishes "to share and to pass," and the potluck often served as a fundraising mechanism for many community groups.



The potluck was further popularized in the 1930s during the Great Depression, when food was scarce and rationed as a result. To experience more variety in one’s diet, communities would gather together and hold a potluck in order to enjoy the different types of food found in each other’s pantry.

Rapid Detection of *Candida auris*

with
NG-TEST®
Candida auris

The first commercial
lateral flow
immunoassay for
detecting *Candida auris*
in the U.S.



Using NG-TEST®
Candida auris
provides rapid
detection in just 15
minutes from isolated
colonies.

NG-TEST® *Candida auris* is
classified as a Breakthrough Device
by the U.S. Food and Drug
Administration and is currently
available for Research Use Only in
the U.S., while FDA review
continues.

A powerful tool in the fight against the emerging threat of *Candida auris*

Hardy Diagnostics is the exclusive distributor in the U.S. and its territories
for the NG Biotech lateral flow assay solutions.

Stop by our booth at ADLM for a live demonstration and a
complimentary sample kit to see how these products can fit into
your laboratory workflow.



See you at ADLM 2026!

July 28–30, 2026 | Anaheim Convention Center

Visit Hardy Diagnostics at Booth #3083.

[Schedule a Meeting](#)

Upcoming Events



Look for us at the exhibits!

IAFP

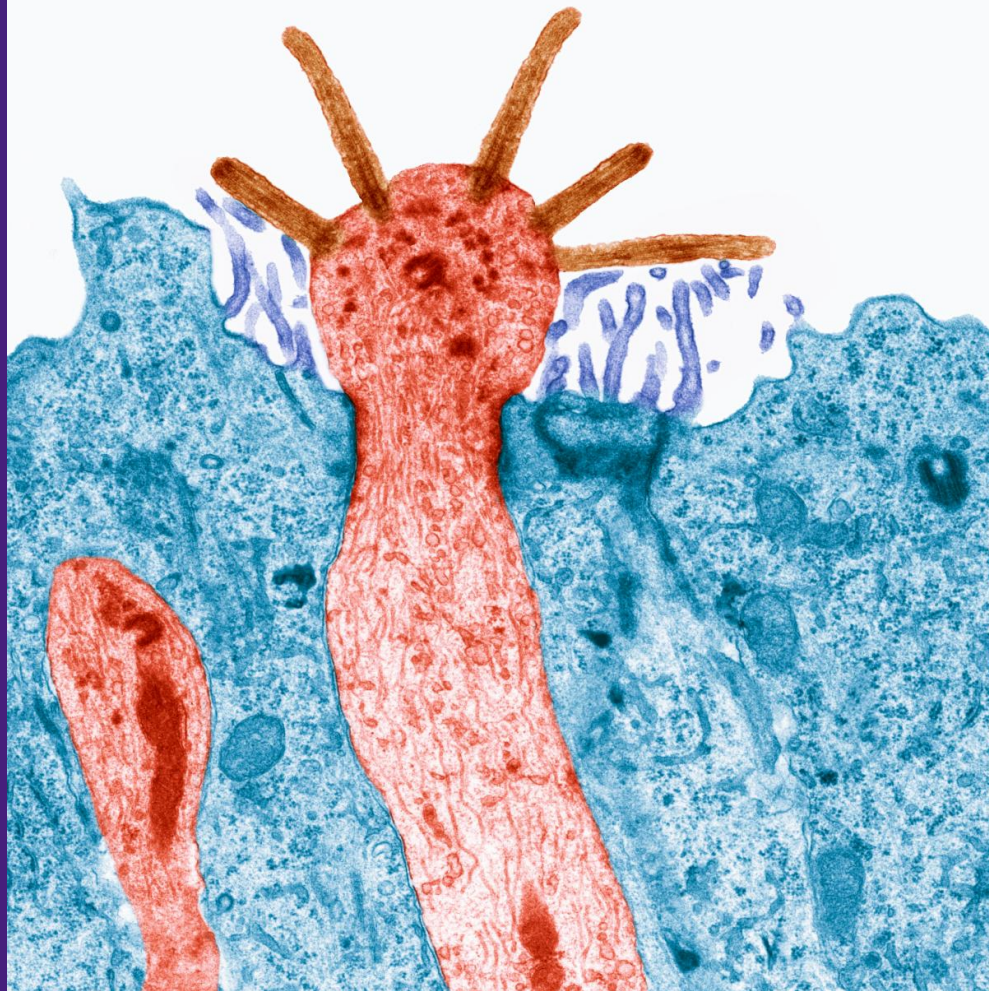
July 26–29 in New Orleans, LA

ADLM

July 26–30 in Anaheim, CA

AOAC

August 29 to September 2 (We are presenting posters but not exhibiting)



What is it?

Take a guess, then scroll to the bottom to find the answer.

Hint: Are you taking time out of your day to smell the roses?

Hardy**CHROM**TM

CHROMOGENIC CULTURE MEDIA

Did you know that Hardy Diagnostics was the first to introduce [Chromogenic Media](#) to America in 1996?

[Chromogenic Media](#) allows the microbiologist to make identifications based on colony color. The principle involves a carbohydrate molecule in the media that is bound to a colorless chromogen. When a specific bacterial enzyme cleaves the bond, the

***HardyCHROM
Plates...
Make Micro Easy!***

chromogen turns color, thus creating color throughout the bacterial colony.

- HardyCHROM Bcc (Burkholderia)
- HardyCHROM BluEcoli (urine biplate)
- HardyCHROM Campy - **NEW!**
- HardyCHROM Candida
- HardyCHROM Candida+auris - **NEW!**
- HardyCHROM CRE (carbapenemase)
- HardyCHROM ECC (E coli, coliform)
- HardyCHROM ESBL
- HardyCHROM Group A Strep - **NEW!**
- HardyCHROM Listeria
- HardyCHROM MRSA
- HardyCHROM O157
- HardyCHROM Sakazakii
- HardyCHROM Salmonella
- HardyCHROM SS NoPro (inhibits Proteus)
- HardyCHROM Staph aureus
- HardyCHROM UTI
- HardyCHROM Urine Biplate (HUrBi)
- HardyCHROM Vibrio



Want to see the complete list? Just type "HardyCHROM" in the search bar [here](#).

See Our Complete Chromogenic Catalog



Helps maintain a healthy gut and reduce biofilms

The Many Benefits of Gotu Kola



***Centella asiatica* Leaf and Its Antibacterial and Anti-Inflammatory Effects**

Centella asiatica, also commonly known as Gotu Kola, Indian pennywort, tiger grass, or the "herb of longevity," is a perennial medicinal herb native to Southeast Asia. It has a long history of use in traditional medicine for enhancing cognitive function, promoting wound healing, and treating various skin conditions such as eczema, psoriasis, and other inflammatory skin disorders. The therapeutic properties of *C. asiatica* are mainly linked to its high levels of bioactive triterpenoids, including asiatic acid, madecassic acid, asiaticoside, and madecassoside. These compounds have been extensively researched for their pharmacological effects, supporting the traditional uses of *C. asiatica* in different medical contexts. (1)



Furthermore, numerous studies show that extracts from *C. asiatica* contain antibacterial properties. Research by Pitinidhipat *et al.* has highlighted that *C. asiatica* effectively inhibits the growth of both gram-positive and gram-negative bacteria, including *Streptococcus mutans*, *Staphylococcus aureus*, *Escherichia coli*, *Bacillus subtilis*, and *Salmonella typhi*, through various mechanisms. (2)

Ethanollic **leaf extracts notably prevent biofilm formation**, especially in *S. mutans*, by altering the bacterial surface hydrophobicity and disrupting its ability to adhere to host cells. (1) Molecular docking studies reveal that compounds like asiatic acid and madecassic acid strongly bind to glucosyltransferase C (GtfC), an enzyme crucial for bacterial respiration and biofilm formation. By binding to GtfC, these compounds effectively inhibit its function. (1) Triterpenes in the extract can also weaken the bacterial cell membrane's integrity, causing cellular contents to leak and ultimately leading to cell death. (3)

Additionally, *C. asiatica* has **gained recognition for its potent anti-inflammatory effects** and is often used to "cool" inflammation and speed up tissue repair. (1)

One of the ways ethanollic leaf extract reduces inflammation is by decreasing the production of nitric oxide, a key signaling molecule in the inflammatory process. Research by Chonsut et al. revealed that when using LPS-stimulated mouse macrophages, the extract's capacity to reduce nitric oxide levels was found to be similar to that of the standard medication, aspirin. (1) Possible side effects to be aware of include upset stomach (orally) and skin rash (topically).

Moreover, the anti-inflammatory properties of **ethanollic leaf extract promote collagen synthesis and angiogenesis** (the formation of new blood vessels), both of which are crucial for tissue repair and minimizing scar formation. Asiatic acid and madecassic acid have been identified as the primary drivers of these effects. (1,4)

In summary, the leaf extract of *C. asiatica* serves as a valuable natural source for creating alternative therapies aimed at bacterial infections and inflammatory conditions. However, as public interest in natural and herbal remedies continues to grow, it is crucial to thoroughly evaluate the safety and efficacy of the *C. asiatica* extracts for various therapeutic applications. Researchers must conduct rigorous clinical trials to ensure that these extracts not only provide the desired health benefits but also do not pose any undue risks to consumers. This involves understanding the optimal dosages, possible interactions with other medications, and any potential side effects that may occur.

By Geovanni Ruiz
R&D Microbiologist II
July 2026

References: [1](#), [2](#), [3](#), [4](#)



Who was it...

that conducted "the most beautiful experiment"
that solved the mystery of DNA replication?

Find out [HERE...](#)

Who is My Rep?

Need help from one of our expert Hardy Sales Reps?

[Click here to make contact](#)

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Andrew Mycroft (WRM)
Michelle Paparella (FT28)
Andrew Mycroft (WRM)

Featured Article

Some may actually help gut health!

Can Sweeteners Damage Your Microbiome?



Do Sweeteners Help or Harm the Gut Microbiome?

From baked goods to diet sodas and sauces, artificial sweeteners are widely used across many different food products. These sweeteners are marketed and generally considered as a healthier, low to no calorie alternative to higher calorie sweetener options like traditional sugar or corn syrup (fructose). However, broader use of artificial sweeteners in products we consume everyday has raised increased scrutiny and concerns about other possible health

effects on individuals and public health.

Recent studies have shown that artificial, non-nutritive sweeteners are not biologically inert substances. Most pass through the body unmetabolized, allowing them to reach the gut and interact with the bacteria present. Increasing levels of these unmetabolized sweeteners have been detected in wastewater treatment facilities, prompting further investigation into the interaction with the gut microbiome and potential health effects. (1)

One common artificial sweetener used in several studies was saccharin. In a study conducted, the impacts on bacterial physiology were observed after exposure to environmentally relevant concentrations. Saccharin was found to increase plasmid transfer rate by six times, as well as promote the transformation (uptake) frequency of extracellular DNA in both gram-positive and gram-negative bacteria. This was attributed to an increase in permeability of the cell envelope. (1) Saccharin was also shown to impact the growth of *Staphylococcus aureus*, *Klebsiella pneumoniae*, and *Pseudomonas aeruginosa*. Saccharin exposure caused these organisms to have a delay in exponential growth from two to six hours, with *B. cereus* showing an even greater increase in sensitivity. (1)

Aspartame, another very common sweetener found in diet sodas and other products, was included in a different study. Similarly to saccharin, aspartame increased cell envelope permeability and extracellular DNA uptake. Growth of *E. coli*, *K. pneumoniae*, and *B. subtilis* were all shown to be inhibited by aspartame exposure. (1)

These interactions with the gut microbiota raise concerns that these sweeteners may be promoting antimicrobial resistance within the host as well as within the environment via wastewater. (1)

Additional health concerns associated with these effects on the gut microbiota are also being investigated. Evidence from preclinical studies showed artificial sweetener consumption (i.e., saccharin, sucralose, aspartame, and stevia) may induce

glucose intolerance through these changes in the gut microbiome. **Saccharin and Sucralose specifically showed significant changes in gut microbiota composition that may affect glycemic tolerance. (2)**

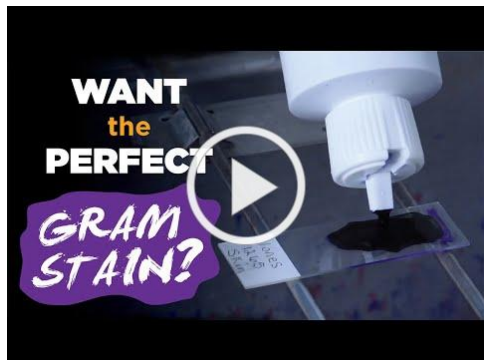
On the contrary, the Monk Fruit (shown in photo above) sweetener, which contain mogrosides, may have a beneficial affect on the microbiome in that it has been found to promote the growth of healthy bacteria, such as *Lactobacillus*, *Bacteroides*, *Prevotella*, *Faecalibacterium*, and *Megasphaera*. Conversely, monk fruit inhibits the growth of *Clostridium*, *Dorea*, and *Desulfovibrio*, which are linked to inflammation. (3)

While these sweeteners may provide some immediate public health benefit pertaining to obesity and diabetic individuals, there may still be risks associated with the regular use of these products, both on an individual and public health level. The current consensus on artificial sweeteners and if they should be considered a “healthy” alternative is mixed. The effect on long term public health remains to be seen.

By Joe Tripp
Technical Support Specialist II
July 2026

References: [1](#), [2](#), [3](#)

Video Tutorials



As a free service to all microbiologists, Hardy has produced a series of instructional videos to help you train new technologists.

CLINICAL

- **TOP IN VIEWS!** How to do a perfect Gram stain
- How to do an Acid Fast stain
- How Agar became a microbiology standard
- How to do a Kirby-Bauer Disk Diffusion Test
- How to do a Hematology stain (Wrights-Giemsa)
- How to Accurately Read Fluorescence
- How to do a Coagulase test for Staph
- How to take a pH Reading of Culture Media
- **TOP IN VIEWS!** How to make a batch of Culture Media
- **TOP IN VIEWS!** How to do a Four Quadrant streak
- How to use McFarland Standards and do Serial Dilutions
- How to do a Catalase test
- How to Detect Group B Strep
- How to Detect *Candida auris*
- How to do a Strep agglutination test
- How to do a PYR test



- How to do a Fungal Slide culture
- How to do an Oxidase test
- How to detect Carbapenem Resistance (CRE)
- How to use Chromogenic media for bacterial and fungal identification
- How to Maintain Your Incubator
- TransPRO™ VTM System Explained
- **NEW!** AnaeroGRO™ - The Power of Pre-Reduced Anaerobic Culture Media



PHARMACEUTICAL

- How to do Air Sampling for EM
- How to do Environmental Monitoring of a Clean Room
- How to do a Media Fill Challenge Test
- How to Take a Gloved Finger Tip Sample
- How to Test Liquids for Sterility
- How to do Surface Monitoring
- **NEW!** What is the TRIO.BAS™ AGC Microbial Air Sampler?



FOOD & BEVERAGE

- How to do Surface ATP Testing
- How to use Chromogenic media for bacterial and fungal identification
- How to make a batch of Culture Media
- How to use McFarland Standards and do Serial Dilutions



Mini Catalogs

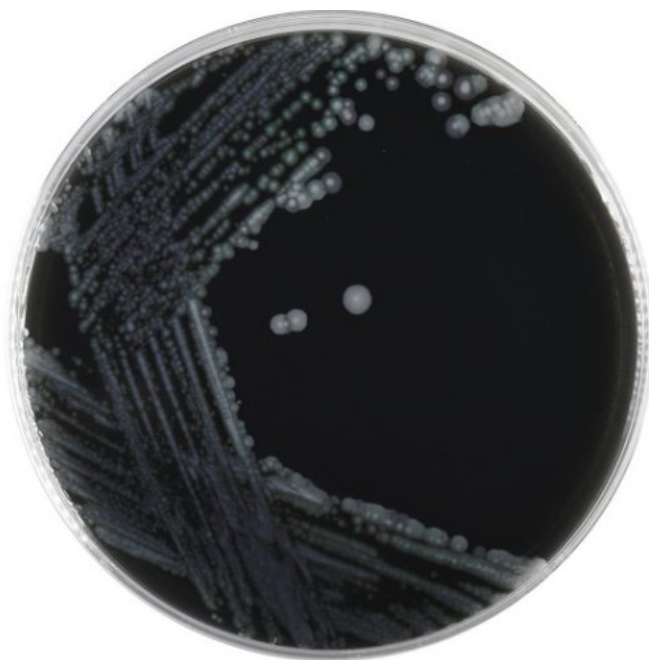
Choose a 'Mini Catalog' that suits your interest...

- Anaerobic Bacteriology
- Antimicrobial Resistance Catalog
- Cannabis Microbiology
- Carrot Broth for Group B Strep
- Chromogenic Media - HardyCHROM
- Collection and Transport Systems
- Compact Dry for Colony Counts
- Control Organisms for clinical use
- Cosmetic and Personal Care Microbiology
- COVID and Influenza Products
- CRE Enzyme Detection
- CryoSavers for Freezer Storage
- CRITERION Dehydrated Media

- Maldi-Tof for bacterial and fungi Identification
- Media Fill Challenge Tests - HardyVAL - USP 797
- Microbial Examination of Non-sterile Products - USP 60
- Microbiologics Control Microorganisms
- Microbiologics Molecular Controls
- Mycology Supplies
- Organism Identification
- Parasitology Products
- Pet Food Microbiology
- Pharmaceutical Microbiology

- DiluCup Dilution Method
- Dilu-Lok Dilution Vials
- Food Microbiology
- Food Safety Controls
- HardyCHROM for the Food Industry
- ImmuView for Pneumonia Diagnosis
- Inoculating Loops
- Latex Agglutination Kits

- Pharmaceutical Microbiology Control Organisms
- Rapid Tests and Reagents
- Susceptibility Testing Products
- Trio.Bas Air Samplers
- Tuberculosis Microbiology
- Veterinary Microbiology
- Winery and Brewery Microbiology



Legionella

A deadly bug found in AC systems, and what to do about it

Click here to learn [more...](#)



General Lab Supplies





Personal Protective Equipment

For added protection on the job, Hardy offers comfortable and disposable lab coats, surgical masks, various gloves, cleaning supplies & more.

[MORE...](#)



DuraRack

Get the last rack you will ever need! Made of vinyl coated steel. Absolutely unbreakable.
Available for every size of Petri dish.

[MORE...](#)



PUN ZONE AHEAD

Laughing is imminent

Some quintessential groaners...

- Where do pirates get their hooks?
Second hand stores.
- Of all the inventions of the last 100 years, the dry erase board has to be the most remarkable.
- My hotel tried to charge me ten dollars extra for air conditioning.
That wasn't cool.



- What do you call a line of men waiting to get haircuts? A barberqueue.
- In fact, if you sneer at any other method of measuring liquids, you may be held in contempt of quart.
- Who were the greenest Presidents in US history? The bushes.

Never date a tennis player.

Love means nothing to them.

Clinical Microbiology



Rapid Carbapenemase Detection Made Simple

NG-TEST[®] *Acineto-5*[®]

NG-TEST[®] *Acineto-5*[®] is a manual, qualitative rapid immunoassay for the detection and differentiation of OXA-24-like/143-like, OXA-23-like, OXA-58-like, VIM and NDM carbapenemases from a *Acinetobacter* spp. bacterial sample.

NG-TEST[®] *Acineto-5*[®] is designated by the U.S. Food and Drug Administration as a Breakthrough Device, and is Research Use Only in the U.S. Results in just 15 minutes.

Cat. no. NGBACIS23000

Pack size 20 tests

**A powerful tool in
the fight against
the urgent threat of
Acinetobacter spp.**



Hardy Diagnostics is the exclusive distributor in the U.S. and its territories for the NG Biotech lateral flow assay solutions product line.



Scan to
learn
more

HardyDiagnostics.com/ngbacs23000

HARDY
DIAGNOSTICS
A Culture of Service[™]

AnaeroGRO

- Pre-reduced culture media (such as Brucella with H&K) packaged in oxygen-free gas flushed MylarFoil pouches for better anaerobe recovery
- Packaging contains an oxygen scavenger sachet
- Packaging contains a moisture absorbing desiccant packet
- Room temperature storage
- MylarFoil pouches have an easy-to-open pre-scored notch
- Wide variety of packaging combinations available: monoplates, biplates, and primary set-up combinations
- Validated performance, ask for the study presented at ASM
- Competitive pricing, quality products, exceptional service and support

- Luxuriant growth and performance characteristics compared to other common brands
- Manufactured in an FDA licensed facility



[Click here to find out more...](#)

Carrot Broth - *Reliable results in as little as 6 hours for Group B Strep*

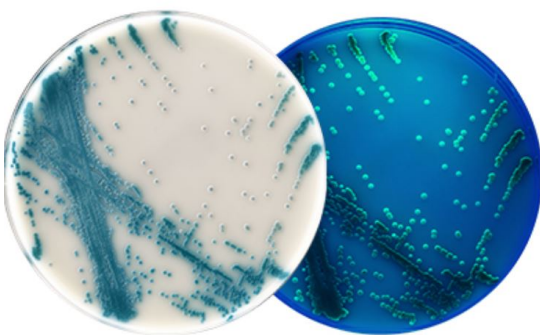
An advertisement for Strep B Carrot Broth. On the left, a smiling woman with dark hair is holding a baby. On the right, a petri dish and a test tube containing orange broth are shown. The text "20 YEARS" is prominently displayed in large orange letters, with "strep B" and "one-step" in smaller text. Below this, it says "Saving More than a Million Lives!". Further down, it states "Every life deserves an opportunity to grow and thrive." and "Better tests enable you to provide just that!". At the bottom right, it says "Strep B Carrot Broth™ (Cat. no. Z40)".



Slant for TB Cultures

Hardy manufactures all your supplies for performing TB cultures. Whether it be Lowenstein Jensen, Middlebrook, or decontamination regents (NALC)...Hardy has it!

[MORE...](#)



Chromogenic Media Selective for *Candida auris*

The Hardy CHROM Candida plate has it all. You can identify all the major species of pathogenic Candida, including *C. auris* by easily using a UV light.

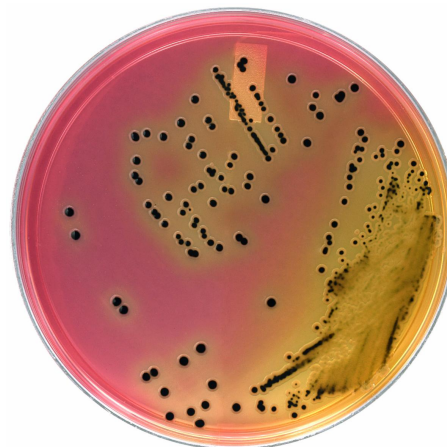
[MORE...](#)



TransPRO™ Viral Transport Medium (VTM) System

Now in a Peel Pouch format! Hardy Diagnostics' Viral Transport Medium (VTM) is intended for the collection and transport of clinical specimens for the preservation of viral agents including Influenza A/B, Adenovirus and Echovirus from the collection site to the testing laboratory.

[MORE...](#)



HardyCHROM SS NoPro

Now you can identify Salmonella and Shigella by color reactions WITHOUT interference from Proteus, which has been known to create false positives on other types of media.

[MORE...](#)

The smallest tool to
fight the biggest threat

NG-TEST®
CTX-M Multi



Rapid and Reliable
Detection of ESBL
CTX-M Enzymes in
Enterobacterales

Learn more
NOW FDA CLEARED!

Pharmaceutical Microbiology



Get Your Ducks in a Row.

For Environmental Monitoring.

Reliable air, gas, and surface sampling solutions
for routine environmental monitoring in
controlled environments.

[Explore EM Solutions](#)



TSB in a Bag

- Terminally autoclaved for high sterility assurance
- The Media-Bag™ has both a spike-port and needle-port



RABS Isolator Kit

The TRIO.BAS™ instruments utilize the impaction method of air sampling.

- Designed for use with Isolators or RABS (Restricted Access Barrier Systems)
- Option to add two additional satellites
- Use separate media at the same time to determine bacterial and fungal

- Quality tested to USP <71> Standards
- Growth promotion testing performed on each lot of media
- Tryptic Soy Broth (TSB) is manufactured in an ISO 13485 Facility
- Notch on the top of the Media Bag allows the technician to hang the bag

[MORE...](#)

- counts
- 100 or 200 liter per minute formats, contact plate or Petri plate formats
- Charges via cable; Sample up to 70,000 liters on a single battery charge
- Can monitor separate cleanrooms with a single external command unit
- Optional 20 meter cable for satellites

[MORE...](#)

Food Microbiology



Streamlined Allergen Testing with Reliable Results You Can Trust

Allergen testing doesn't have to be complicated. The Allergen Free product line of rapid lateral flow tests offers advantages in workflow, performance, and reliability.

safer food starts here



Legionella ID Made Easy

Now you can easily confirm your Legionella colonies on BCYE with the rapid Microgen Legionella Latex Agglutination test kit in only two minutes. This kit offers a rapid alternative compared to traditional methods,

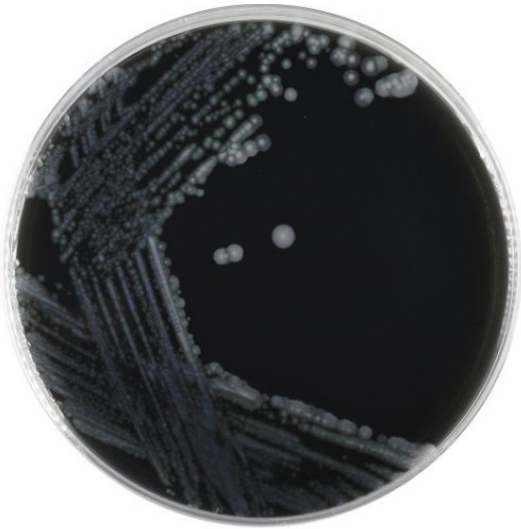


Antigen Testing for Tree Nuts

Lateral Flow test for the detection of seven of the most common types of tree nuts in food products, CIP rinse solutions and working surfaces. It detects almond, brazil nut, cashew, hazelnut, pecan, pistachio and walnut residues, either individually or in

with 100% specificity and sensitivity. It is compliant with the ISO 11731 for Water Quality, and integrates into laboratories workflows improving efficiency as it requires no special equipment or training.

[MORE...](#)



BCYE for Legionella

Buffered Charcoal Yeast Extract Agar with Glycine, Vancomycin, Polymyxin, and Cycloheximide) For the selective isolation of Legionella spp. Conforms to ISO 11731 formulation.

[MORE...](#)

combination, by using two detection (Test) zones.

Features:

- Easy-to-use
- Ideal for non-technical personnel
- Broad range of validated matrices
- Innovative detection on working surfaces
- Room temperature storage

[MORE...](#)



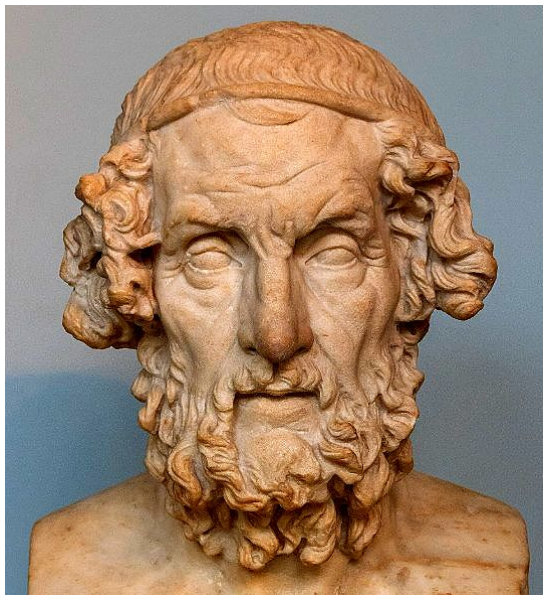
Sani-Swipe Blue Sampling Bag

The Sani-S'wipe™ Blue kit includes a biocide-free cloth and sterile bag for surface sampling to detect microbiological contaminants and foodborne pathogens. Sani-S'wipe™ Blue is premoistened with premoistened with Neutralizing Buffer and is designed to neutralize chlorine, iodine, and quaternary ammonium disinfectants, improving microbial recovery from environmental surfaces and equipment.

[MORE...](#)

Wisdom to Ponder...

Hardy Runs on Solar Powder!



Homer

8th century BC

Ancient Greek poet who is credited with writing the *Iliad* and the *Odyssey* in the late eighth or early seventh century BC. Homer was revered in ancient Greek society and is considered one of the most influential authors in all of history.

"Of all creatures that breathe and move upon the earth, nothing is bred that is weaker than man."

"...There is the heat of Love, the pulsing rush of longing, the lover's whisper, irresistible—magic to make the sanest man go mad."

"Hateful to me as the gates of Hades is that man who hides one thing in his heart and speaks another."

"There is a time for many words, and there is also a time for sleep."

"There is nothing more admirable than when two people who see eye to eye keep house as man and wife, confounding their enemies and delighting their friends."

"A man who has been through bitter experiences and travelled far enjoys even his sufferings after a time"



Most of the buildings at the Hardy campus are equipped with rooftop solar panels...1,826 panels to be exact! That makes Hardy one of largest generators of solar power in our community. That's just one of the features that makes **Hardy a certified "Green Business."**



"Price as marked, eh? Is that the best you can do? What if it were to have, shall we say, some 'slight defects'?"

More [Cartoons](#) by Leigh Rubin

"Let me not then die ingloriously and without a struggle, but let me first do some great thing that shall be told among men hereafter."

"Be strong, saith my heart; I am a soldier; I have seen worse sights than this."

"For a friend with an understanding heart is worth no less than a brother"

"Even a fool learns something once it hits him."

"Like the generations of leaves, the lives of mortal men. Now the wind scatters the old leaves across the earth, now the living timber bursts with the new buds and spring comes round again. And so with men: as one generation comes to life, another dies away."

"We men are wretched things."

"Why so much grief for me? No man will hurl me down to Death, against my fate. And fate? No one alive has ever escaped it, neither brave man nor coward, I tell you - it's born with us the day that we are born."

"Men are so quick to blame the gods: they say that we devise their misery. But they themselves- in their depravity- design grief greater than the griefs that fate assigns."

"The difficulty is not so great to die for a friend as to find a friend worth dying for."

"Some things you will think of yourself,...some things God will put into your mind"

"My name is Nobody."

* * * * *



"I'm going to grow a hundred years old!"

...and possibly she may—for the amazing strides of medical science have added years to life expectancy

It's a fact—a warm, wonderful fact—that this five-year-old child, or your own child, has a life expectancy almost a whole decade longer than was her mother's, and a good 15 to 20 years longer than that of her grandmother. Not only the expectation of a longer life, but of a life by far healthier. Thank your doctor and thousands like him... taking seriously... that you and yours may enjoy a longer, better life.



According to a recent *Nationwide* survey:

More Doctors smoke Camels
than any other cigarette!

NOT ONE but three outstanding independent research organizations conducted this survey. And they asked not just a few thousand, but 111,307, doctors from coast to coast to name the cigarette they themselves preferred to smoke.

Answers came in by the thousands... from general physicians, diagnosticians, surgeons, nose and throat specialists too. The most-named brand was Camel. If you are not now smoking Camels, try them. Let your "T-Zone" tell you (see right).

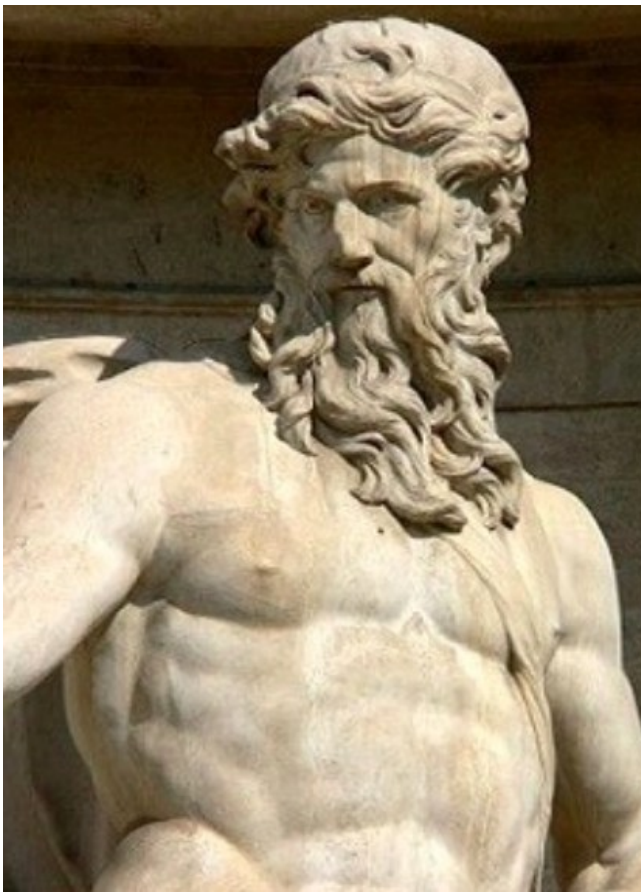
R. J. REYNOLDS TOBACCO CO., WASHINGTON, D. C.

CAMELS *Costlier Tobaccos*



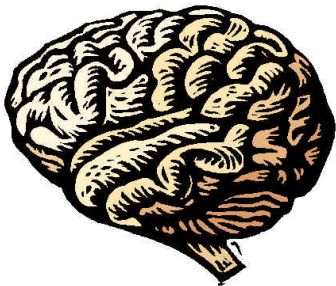
THE "T-ZONE" TEST WILL TELL YOU

The "T-Zone"—T for taste and T for throat—is your own passing ground for any cigarette. Only your taste and throat can decide which cigarette tastes best to you... how it affects your throat.



Brainteasers

Think you're pretty smart?
Let's find out...[HERE](#)

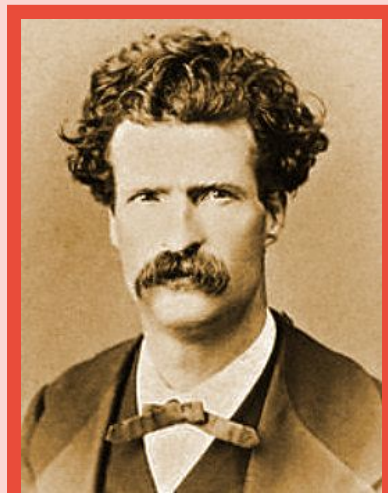


[Enter Here](#)

"If you pick up a starving dog and make him prosperous he will not bite you.

This is the principal difference between a dog and man."

~ Mark Twain





Manufacturing facility, Springboro, OH



This is the Hardy Diagnostics' manufacturing facility in Springboro, Ohio.

Watch a 2-minute video below on how we make our culture media!





During our 46 years of serving the microbiology community, we have continually aimed to provide the utmost in "**a culture of service**" for our valued customers. As a 100% employee owned company, we have even more incentive to please our customers as best we possibly can every day. Do you have a suggestion, comment, or question? Please contact me [here](#).

• **Jay Hardy, CLS, SM (NRCM)** •

*Founder of Hardy Diagnostics
Editor of MicroBytes*

The "**What is it?**" photo above:

This is a transmission electron micrograph (TEM) of a section through the olfactory epithelium that lines the nasal cavity, **showing an olfactory cell (smell receptor, red) and its cilia (hair-like projections)**. Olfactory receptors are bipolar neurons (nerve cells) that transmit 'smell' information to the brain. The cilia are covered with a sticky mucus (not seen) that traps dust and other inhaled particles. Co-ordinated, wave-like beating of the cilia propels the mucus to the back of the nose (pharynx), where it is swallowed. Magnification: x5000 when printed 10 centimeters wide.

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