CANNABIS

PATHOGEN DETECTION • ENVIRONMENTAL MONITORING



PATHOGEN DETECTION







4 Plating your sample Hardy provides a full suite of products for pathogen and yeast and mold detection in both dehydrated media and prepared culture media formats.

Incubation: Yeast and Mold vs. Bacteria

It is important to incubate your plates at the appropriate temperature for the target organism. Yeast and mold typically require lower temperature and longer incubation. Be sure to have the right equipment for each media application, and always consult your instructions for use for clarity.

17





BAGS AND ACCESSORIES



BagPage® Blender Bags with Filter

Blender bags with a full surface micro-perforated filter. Flora is extracted from the sample and goes through the filter during blending. Sterile packs of 25, 100 ml, 180x95 mm. 500/box 121025

BagLight® Blender Bags without Filter

Blender bags without filter, for all microbiological uses in labs. Sterile packs of 25, 100 ml, 110x190 mm, 500/box BL100





BagClip® Closing Clips for Lab Blender Bags

BagClip® temporarily closes all types of bags, avoiding intermediary weldings. Three-point closing system closes quickly, water and air-tight. 100ml bags, 231010 50/pk

BagRack[®] Storage Rack

The BagRack® bag holder allows for clean and methodical storage of bags. Made of stainless steel, is stackable, and autoclavable. Each

BR80100





BagOpen[®] Bag Opener Stand

Open the sample bag easily without any contact with the sample or use it as a bag holder to keep any bag open. Each 211010





DiluFlow® Single Pump Gravimetric Dilutor

Designed for the automatic dilution of a solid sample with the appropriate weight of diluent. Dilute your sample just by pressing 2 keys. Easy-to-use, DiluFlow® is the perfect entry level dilutor for your lab. In compliance with ISO 7218. ISO 6887-1 & FDA BAM Each

501103

MiniMix[®] 100 Laboratory Blender

Designed for the blending of small samples. Thanks to the adjustable paddles, blending is more accurate and efficient. Each 100WCC





Scan' 300 Automatic Colony Counter

Counts colonies on a Petri plate in less than half a second and gives you guick, accurate, complete and traceable reading of the results. Each 436300

Scan[®] 100 Manual Colony Counter

A high-tech manual colony counter with user-friendly functions and wonderful ergonomy. An LED lighting system with Dark-Field technology gives an accurate and contrasted view of the colonies. Each 435000





The Wizard CompactDrv[™] Reader See page 13 for more details Each

CDR2

DILULENTS

Buffered Peptone Water

For increasing the recovery of inju Salmonella spp.	ired
16x125mm tube, 10ml fill, 20/pk	K195
Dilu-Lok™, Gamma Irradiated, 90ml fill, 50/pk	D080
500ml polycarbonate bottle, 400ml fill, 10/pk	U143

Butterfield's Phosphate Buffer

For the preparation of dilutions for p	late
count and other laboratory tests.	
16x125mm Tube, 9.9ml fill, 20/pk	K208
16x125mm Tube, 10ml fill, 20/pk	K109
Dilu-Lok™, 90ml fill, 50/pk	D590
Dilu-Lok™, 99ml fill, 50/pk	D599
500ml polycarbonate bottle,	
500ml fill, 10/pk	U190



Deionized Sterile Water

For general laboratory use and for the preparation of dilutions and suspensions. Dilu-Lok™, 90ml fill, 50/pk D090

Dilu-Lok™, 99ml fill, 50/pk	D099
With Tween® 80, 0.1%, 125ml PC bott 100ml fill, 16/pk	le, U259
1L polypropylene bottle, 1000ml fill, 10pk	U284
	0201

Help break down your oily or waxy hydrophobic samples with Tween[®] 80, a lipophilic surfactant.

Tween® 80 General purpose surfactant. 500ml polypropylene bottle, 500ml fill, Each U180





DILUGENT[®] SHAKER AND DILUCUP[®]

by LabRobot

The Dilugent[®] Shaker uses orbital rotation to make sure each dilution is thoroughly vortexed. It is activated by either an hands-free optical sensor or the optional foot pedal. The 42 LED indicators light each cup, letting you easily see what dilution well you are in.

Dilugent SHAKER

(Dilugent[®] and Dilugent[®]

• Able to record sample ID

(Dilugent[®] and Dilugent[®]

Bar code reading

Pro onlv)

Pro only)

and user ID

Features:

- Dimensions: 38cm x 29.5cm x 5cm
- 7" touch screen
- Two optical sensors, one at each side
- Can create and store testing templates, assuring standardization of method
- Programming with intuitive software
- 6 rows for 42 cups (7 x 6)
- Removable magnetic tray for 42 cups
- Export data to USB

Dilugent[®] Shaker Light

Store up to 2 templates. Data retrieval is manual only.

Dilugent® Shaker Pro

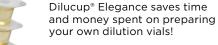
LIMS connectivity and traceability for data. Record sample ID, technical or user ID. Bar code scanner capability. Store up to 10 templates.

Dilugent[®] Shaker Standard Version

Record sample ID, technical or user ID. Bar code scanner capability. Store up to 10 templates. Export data to USB.

Custom diluents available in bulk orders

40DGT84SD



BPW (Buffered Peptone Water)

Dilucup[®] Elegance

- pH: 7,0 ± 0,2
- Volume: 9 ml ± 2 %
- 7x3 cups, 9ml fill
- 42 cups 40DEBPW6

- Full connectivity to LIMS (Dilugent[®] Pro only)
- Optional Footswitch, Cat. no. 40FS02

40DGT84PO

40DGT84I T



QUALITY CONTROL ORGANISMS

Microbiologics

Microbiologics® offers cannabis microbial testing quality control strains to help you ensure accurate results and keep consumers safe. We have all the required cannabis strains your laboratory needs in test-ready formats.

Safe, simple, stable controls

- Compatible with a variety of instruments, kits, and applications
- Independent external controls provide accurate, reliable results
- Convenient test-ready formats save you time and money
- Easy and economical storage, no freezing required
- Certificate of Analysis provides detailed strain information
- Technical Support experts available for guidance

QC SETS AND PANELS

Big 6 STEC QC Set Set includes 6 KWIK-STIKs

5218P

Bundled sets and panels of microorganism strains for QC of instruments and test kits.

Cannabis Process Control QC Set

Set includes 6 KWIK-STIKs, 6 different strains

5257P

Complete Aspergillus Collection for Cannabis Process Control QC SetSet includes 8 KWIK-STIKs of the four major Aspergillus strains5256P

LYFO·DISK[™]

6 lyophilized pellets of a single microorganism strain for quality control.

sm		Microbiologi Mi
	Let men microbiologies com	Cat. no.

Lyopholized Strains	Cat. no.
Aspergillus brasiliensis derived from ATCC® 16404™*	0392L
Aspergillus fumigatus derived from ATCC® 204305™*	01021L
Aspergillus flavus derived from ATCC [®] 9643 [™] *	01182L
Aspergillus niger derived from ATCC [®] 16888™*	0245L
Bacillus spizizenii derived from ATCC® 6633™*	0486L
Candida albicans derived from ATCC® 10231™*	0443L
Candida albicans derived from ATCC [®] 60193™*	0425L
Pseudomonas fluorescens derived from ATCC® 13525™*	0241L
Pseudomonas aeruginosa derived from ATCC [®] 27853™*	0353L
Pseudomonas aeruginosa derived from ATCC® 9027™*	0484L
Penicillium chrysogenum derived from ATCC® 10106™*	0178L
Penicillium citrinum derived from ATCC® 9849™*	01133L
Enterococcus faecalis derived from ATCC [®] 29212 ^{™*}	0366L
Escherichia coli serotype O157:H7 derived from ATCC® 35150™*	0617L
Escherichia coli derived from ATCC® 8739™*	0483L
Escherichia coli derived from ATCC® 25922™*	0335L
Klebsiella pneumoniae subsp. pneumoniae derived from ATCC® 13883™*	0351L
Salmonella enterica subsp. enterica serovar Typhimurium derived from ATCC® 14028™*	0363L
Salmonella enterica subsp. enterica serovar Typhimurium derived from ATCC® 13311™*	0421L
Salmonella enterica subsp. diarizonae derived from ATCC® 12325™*	01054L
Salmonella enterica subsp. diarizonae derived from ATCC® 29934™*	01045L
Salmonella enterica subsp. enterica serovar Bispebjerg derived from ATCC® 9842™*	01056L
Salmonella enterica subsp. enterica serovar Enteritidis derived from ATCC® 13076™*	0345L
Staphylococcus aureus derived from ATCC [®] 6538P™	0827L

*Look for the ATCC Licensed Derivative® Emblem for all products derived from ATCC® cultures. The ATCC Licensed Derivative Emblem, the ATCC Licenses Derivative Work Mark, and the ATCC Catalog Marks are trademarks of ATCC. Microbiologics, Inc. is licensed to use these trademarks and to sell products derived from ATCC® cultures.

ATCC[®] Licensed

Derivative

PREPARED CULTURE MEDIA PLATES



Dichloran Rose Bengal Chloramphenicol (DRBC) Agar

For use in the cultivation of yeast and mold. 15x100mm plate, 26ml fill, 10/pk W89



HardyCHROM[™] O157

A selective and differential medium recommended for the isolation of E. coli O157 from food and environmental sources. Not intended for human diagnostic use. O157 provides an initial screen intended to isolate colonies for further testing. 15x100mm plate, G305 10/pk



Tryptic Soy Agar (TSA), USP

For the cultivation of microorganisms. Also known as Soybean-Casein Digest Agar. 15x100mm plate, G60 10/pk

HardyCHROM[™] Salmonella

A chromogenic medium recommended for the selective isolation and differentiation of Salmonella spp. from other members of the Enterobacteriaceae family based on colony color. Selective agents inhibit the growth of Gram-positive organisms. 15x100mm plate, 10/pk G309



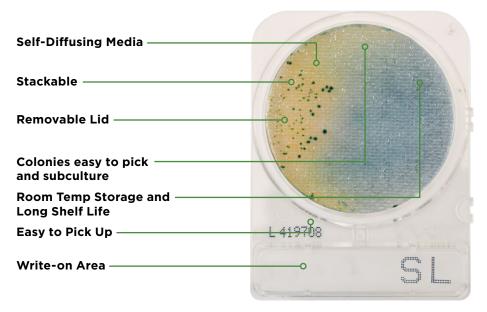
Since 1980, Hardy Diagnostics has grown to manufacture an extensive selection of prepared media products which are packaged in plates, tubes, bottles, bags, and flasks. Our products go through rigorous and extensive QC testing. Lot specific Certificates of Analysis are available at HardyDiagnostics.com.



Testing for:	Medium	Cat. no.
General Growth	Blood Agar Plate, 5% Sheep Blood in Tryptic Soy Agar	A10
	Tryptic Soy Agar (TSA), USP	G60
	HardyCHROM™ 0157	G305
	EC Broth with MUG (methylumbelliferyl glucuronide)	K64
	HardyCHROM [™] ECC (<i>E. coli</i> and Coliforms)	G303
	SHIBAM Medium	A146
E. coli / STEC	Stx (Shiga-Toxin) Induction Broth	K274
/ Bile Tolerant Gram-Negative	Violet Red Bile Agar	G78
Bacteria	EMB Levine Agar (Eosin Methylene Blue)	G25
	MacConkey Broth (Dehydrated Format)	C6141
	MacConkey Agar (Dehydrated Format)	C6131
	EE Broth Mossel, USP	U391/U291
Listeria	HardyCHROM™ Listeria	G317
	HardyCHROM™ Salmonella	G309
	Rappaport-Vassiliadis Broth, USP	K246
Salmonella	Rappaport-Vassiliadis Salmonella Enrichment Broth (Dehydrated Format)	C8781
	Xylose Lysine Deoxycholate (XLD) Agar, USP	G65
Staphylococcus	HardyCHROM™ Staph aureus	G311
aureus	Mannitol Salt Agar (MSA) (Dehydrated Format)	C6231
	Dichloran Rose Bengal Chloramphenicol (DRBC) Agar	W89
	Malt Extract Agar	W28
	Potato Dextrose Agar, USP	W60
Yeast, Mold, and Fungi	Potato Dextrose Agar with Chloramphenicol	W94BX
	Sabdex (Sabouraud Dextrose) Agar with Chloramphenicol	W72
	Sabdex (Sabouraud Dextrose) Agar	W70
	Sabdex (Sabouraud Dextrose) Agar (Dehydrated Format)	C6811

Compact Dry

The CompactDry[™] plate line presents a variety of organism-specific or total count tests, packaged nicely in a sophisticated and sturdy cassette.



Procedure: Step 2 Step 1 Drop 1ml* of Remove protective specimen (dilute cap from if necessary) in CompactDry[™] plate. the middle of drv sheet. Step 3 Step 4 Specimen diffuses Recap and incubate automatically for prescribed time, into the plate, then count the transforming the number of colonies. dry medium to gel.

*Please refer to your instructions for use for complete inoculation procedures.



Total Count 54081 240/pk



Staphylococcus aureus 240/pk 54086



Pseudomonas aeruginosa 100/pk PA100



800.266.2222



E. coli and Coliforms 240/pk 54082



Enterobacteriaceae 100/pk ETB100



Total Count Rapid 240/pk 54088



Salmonella 54085 240/pk



Bacillus cereus 100/pk XBC100



Listeria LS100 100/pk



Yeast and Mold Rapid 240/pk 54084



Yeast and Mold 54083 240/pk Sales@HardyDiagnostics.com HardyDiagnostics.com

AUTOMATED COLONY COUNTER



The Wizard CompactDry™ Reader, a small instrument that will make a big impact on reducing the time spent counting colonies by hand.

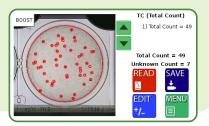


Easy-to-use: Flip the switch, select your configuration, insert your CompactDry[™] plate(s), select read, and save your results! See how fast that was?

Designed exclusively for CompactDry[™]

Consistency where it counts

The Wizard[™] brings precise colony counts to each and every set of plates, eliminating the risk of human error and inconsistency.



Your colony count in seconds

Save technician hours on this tedious task to maximize your throughput possibilities. Does both colony counts and chromogenic reads.

Simple implementation

Easy-to-understand instructions make for simple Standard Operating Procedures, allowing you to easily train your team and begin utilizing automation for your colony counts.

Compliance made easy

Make data compliance easy in any lab with several ways to save your test results. Transfer to LIMS software, save directly to USB, or print your data.

Accessories



USB Wireless Keyboard Includes USB dongle. Cat. no. 120103



Barcode Scanner Includes USB Connector and stand. Cat. no. 120102



Thermal Printer Includes USB Connector and power supply. Cat. no. 120101



Digital Incubator

The IncuPRO™ Digital Incubator is perfect for incubating cultures, test kits, and many other research and medical procedures that require heating at an economy price. Great for lab benchtops with limited space.

- Includes two shelves and accommodates
- up to four shelves
- Digital temperature readout with
- control dial
- Solid door style
- 0.8 cubic feet Each

133000H

IncuPRO.



Be sure to gain an understanding of the differences between incubating yeasts and molds versus bacteria. Not all organisms will thrive in the same environments.

For more information on incubation times and temperatures, please reference your instructions for use, or reach out to our technical service team at

800-266-2222 x5598



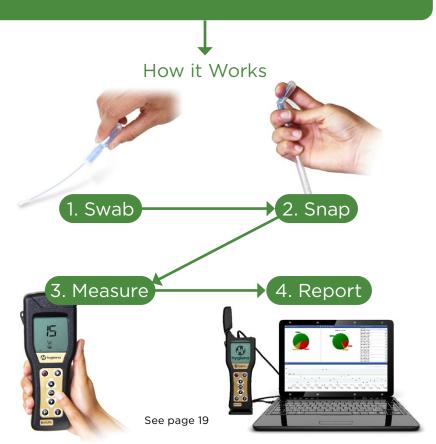
Incubation time table for CompactDry[™] plates

CompactDry™ Product	Incubation Temperature	Incubation Time
Total Count	35-37 °C	48 hrs.
Total Count Rapid	35-37 °C	24 hrs.
E. coli & Coliforms	35-37 °C	24 hrs.
Yeast and Mold	25-30 °C	3-7 days
Yeast and Mold Rapid	25-30 °C	48-72 hrs.
Staphylococcus aureus	35-37 °C	24 hrs.
Enterobacteriaceae	35-37 °C	22-26 hrs.
Listeria	35-37 °C	24-28 hrs.
Salmonella	41-43 °C	20-24 hrs.
800.266.2222 Sales@	HardyDiagnostics.com H	ardyDiagnostics.com

ENVIRONMENTAL MONITORING SURFACE

Why perform surface sampling?

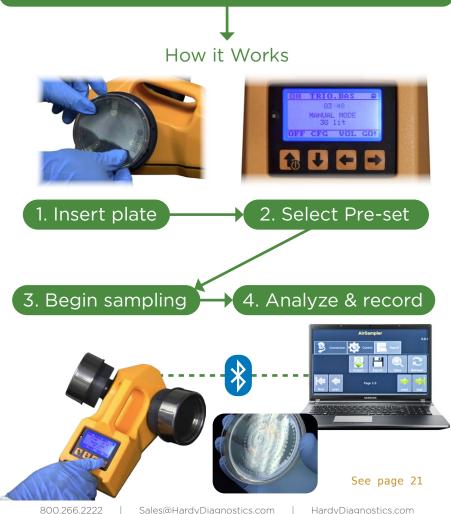
Whether you come from years of GMP and HACCP experience or are just learning the basics, it is crucial that companies in the cannabis industry gain an understanding of their microbial environments. This intuitive and straightforward surface sampling process allows you to monitor your environment, keep your customers safe, and greatly reduce risk of contamination. Simple swab tests will give you a read out on the cleanliness of your environment in seconds. Don't get caught empty handed, start understanding your critical control points today!



AIR

Why perform air sampling?

Stay ahead of mold in your cultivation and processing environments with active impact air sampling. TRIO.BAS[™] offers the best solution on the market for monitoring your air quality and brings GMP/USP standards to your facility. See trends and changes in your environment at a moment's notice by bringing air quality testing in house.



SURFACE SAMPLING

hygiena[®] EnSURE[®] Touch



Innovation at Your Fingertips

EnSURE[™] Touch is an advanced monitoring system that collects, analyzes and reports data from a variety of long trusted quality tests, providing rapid and accurate sanitation verification data. Featuring a 5-inch touch screen, wireless sync technology, and cloud-based software. The EnSURE[™] Touch is designed to adapt to your workplace, providing the data you need for complex multi-location supply chain monitoring, audit and risk management, and recall prevention.

EnSURE Touch features:

- Results in 10 seconds
- Test and compare the effectiveness of sanitation products and procedures
- Run multiple tests on one system in just a few taps
- Minimal size, maximum durability
- Cloud Connected & Wireless Enabled

Each

ETOUCH

Results in seconds!





Best Seller!

Hygiena UltraSnap

Product Specifications Cat. no. UltraSnap™ US2020 ATP surface test, 100/bx AQ100X AquaSnap[™] Total ATP water test, 100/bx MS2ECOLI Micro-Snap Test, E. coli Indicator organism test, 100/bx MicroSnap[™] Coliform Indicator organism test, 100/bx MS2COLIFORM MicroSnap[™] Total Indicator organism test, 100/bx MS2TOTAL

ENVIRONMENTAL PATHOGEN DETECTION



Non-ATP color change indicator test for environmental surfaces

Swab your surface, release the media, and look for a color change. Takes 24-48 hours.

Product	Specifications	Cat. no.
InSite™ Salmonella	Environmental surface swab, positives turn yellow, 50/bx	16D011007BL



This ready-to-use swab and tube is pre-filled with your choice of three sampling diluents.

EnviroTrans™ Neutralizing Buffer

2ml, 20/box	SRK20	
5ml, 20/box	SRK15	
EnviroTrans™ Neutralizing Saline		
5ml, 20/box	SRK55	

For neutralization of bactericidal and bacteriostatic effects of chlorine and quaternary ammonium compounds to facilitate the survival of organisms from the sampling surface. (SRK20, SRK15, SRK55)

EnviroTrans[™] Letheen Broth 5ml, 20/box

SRK25

Recommended by AOAC International for evaluating the bactericidal activity of quaternary ammonium compounds and supports growth of a variety of organisms. (SRK25)

Collect and transport your environmental samples from the surface to the lab efficiently and easily with Envirotrans[™]. Take a 1ml sample and inoculate your CompactDry[™] plate! Works great with CompactDry[™]!

EM AIR SAMPLING

DUO



Stop mold sporulation where it starts with an impact air sampling protocol for your facility. Sample several areas quickly and efficiently, and grow your samples on our quality prepared media for the best results of your air quality.



The TRIO.BAS[™] family of air samplers has a 45 year history and comes from the engineers of the first portable air sampler. The instruments are lightweight, ergonomic, have data integrity with Bluetooth capability and use standard media. Choose a format to best fit your environmental monitoring needs.

- Two aspirating heads with easy manipulation bayonet closure
- Save sampling time by doubling the aspirated volume of air
- Manual or automatic operations
- Ergonomic and balanced design is lighter than industry counterparts
- Programmable for simultaneous or interval aspirating times
- No plugs or external connections
- Connection free induction battery charger
- Two aspirating heads for sampling on separate plates to determine bacterial and yeast/mold counts

Cat no. BAS226K



TRIO.BAS™ DUO Kit Contains: Air sampler instrument, induction battery charger and cable, aspirating heads, cover heads, ROBUSTUS carrying case, and calibration certificates.

Testing gas lines for microbial growth? Use the TRIO.GAS attachment!

TRIOGAS Microbiological High Pressure Gas Sampler

Designed to test the presence of microorganisms in compressed gas samples supplied from tanks and pipes under pressure. Compatible with MONO or MINI TRIO.BAS[™] unit.



TSA (Tryptic Soy Agar) with Lecithin and Tween[®] 80

Cat no. BAS60

For the cultivation of microorganisms from environmental surfaces. 15x60mm contact plate, 10/pk P34

Sabdex (Sabouraud Dextrose) Agar

For the selective isolation of fungi and yeasts from clinical and nonclinical specimens. 15x60mm contact plate, 10/pk P36



Cat no BAS201













Hardy Diagnostics donates 1% of each sale to charity.



Hardy Diagnostics has a Quality Management System that is certified to ISO 13485 and is a FDA licensed medical device manufacturer.

Headquarters

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