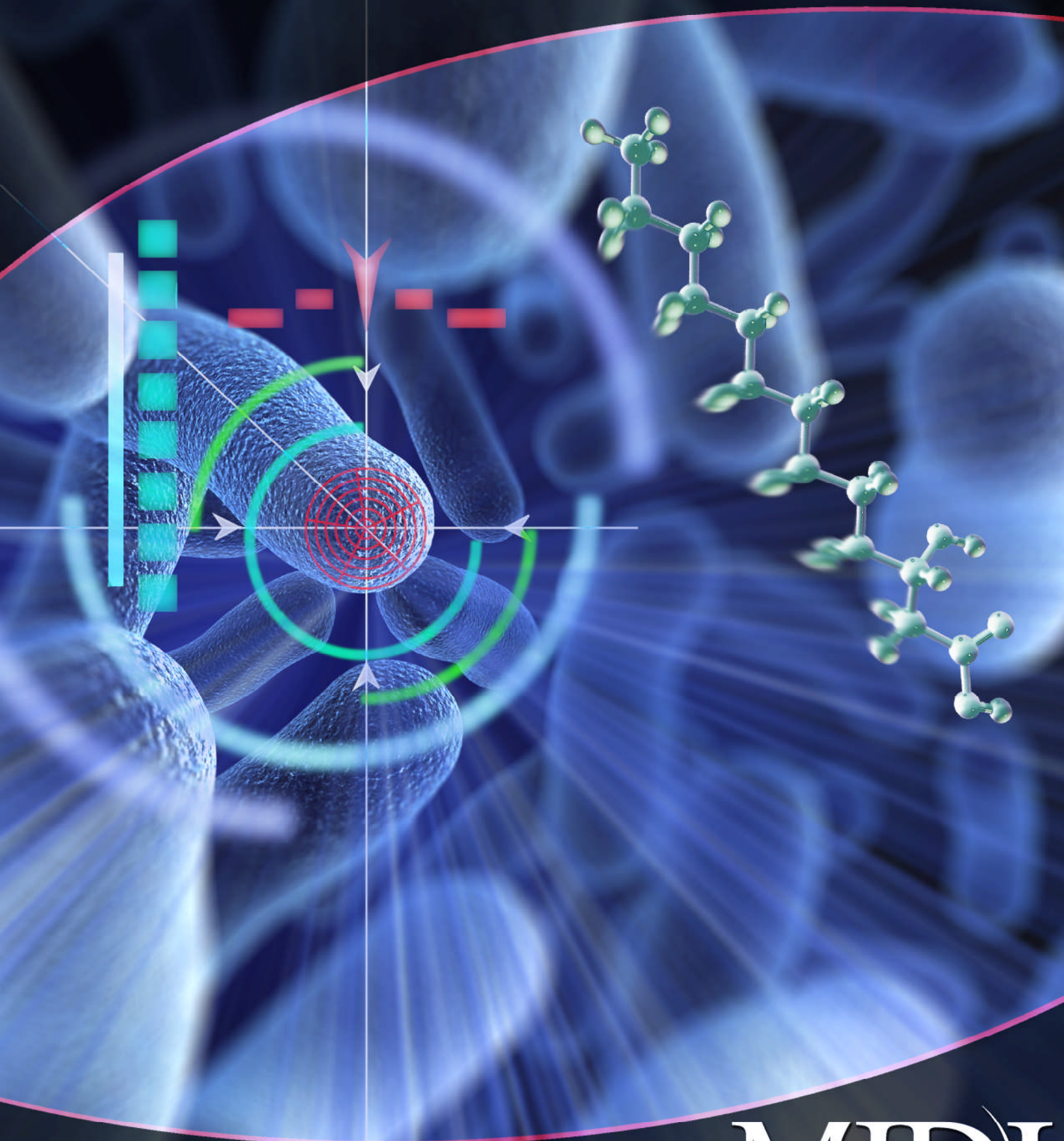


INSTANT ANAEROBE™



ZERO IN, LOCK ON, IDENTIFY.
THE NEW SHERLOCK® MICROBIAL IDENTIFICATION SYSTEM

MIDI

MIDI *Instant Anaerobe™* for Sherlock

Anaerobe Identification in Less than 15 Minutes

3 Minute Sample Preparation

Around 2.5mg Cells Required

Inexpensive Per Sample Cost

No Gram Stain Needed

Over 60 Anaerobes Identified in One Test

New *Instant Anaerobe™* Sample Preparation Method

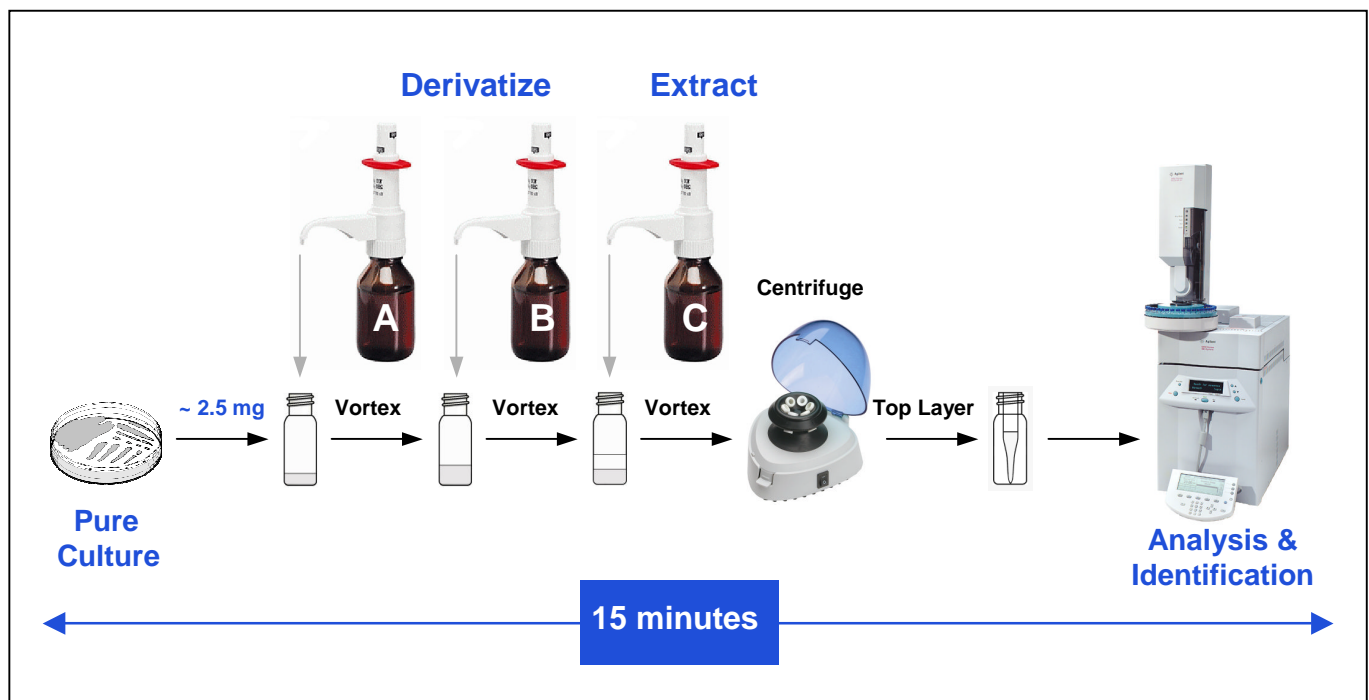
Instant Anaerobe is a new sample preparation method for the Sherlock® Microbial Identification System. This new procedure takes 2-3 minutes to prepare an extract from ~2.5mg of pure culture. Once the extract is prepared, only 9 minutes are required to ID the isolate.

The Sherlock® Microbial Identification System

Clinical and environmental laboratories worldwide have used the Sherlock® Microbial Identification System since 1985. The Sherlock System identifies microbes by analyzing the fatty acids present in the cell membrane. The fatty acids are separated from the cell and then analyzed with an Agilent Technologies gas chromatograph (GC).

The Sherlock pattern recognition software then compares the fatty acid pattern of each sample to libraries of stored patterns to make an identification. Additional software tools allow for strain tracking, custom library generation, 21CFR Part 11 compliance and DNA sequencing analyses.

Instant Anaerobe™ Identification Procedure



For research use only. Not for use in diagnostic procedures.

Benefits Compared to Other Anaerobe Identification Methods

Rapid sample preparation and analysis

- The *Instant Anaerobe* identification process takes less than 15 minutes from pure culture to identification, compared to up to 24 hours required of most Anaerobe identification methods.

Reduced growing time needed

- The *Instant Anaerobe* procedure uses ~2.5mg of cells, compared to the 20mg of cells required of some other anaerobe identification systems.

Lower cost per sample

- The *Instant Anaerobe* procedure costs less than \$7.00 USD per sample (not including the required *Brucella* culture media), compared to near \$10.00 USD per sample for biochemical-based systems and over \$25.00 USD per sample for DNA Sequence-based systems.

Standardized procedure for all anaerobic bacteria

- All anaerobic isolates are prepared using the same procedure, so no upfront biochemical tests, gram stains or biochemical cards are required.

Benefits Compared to the Traditional MIDI Sherlock Extraction Procedure

Reduced extraction time

- The entire extraction procedure is reduced from 2 hours to 3 minutes because of a novel fatty acid-based chemistry developed by MIDI.

Reduced amount of reagents needed

- There are 3 reagents used during the *Instant Anaerobe* procedure and only 250ul of each reagent is required for the sample preparation.

Less corrosive reagents

- The reagents used are less corrosive and MTBE, a ground water and soil contaminant, is no longer a reagent used within the extraction procedure.

No more water baths or laboratory shakers

- The *Instant Anaerobe* procedure does not require any of these pieces of equipment.

Standard media and growth temperatures used

- The *Instant Anaerobe* Library was developed under the following media/growth requirements:
 - o Anaerobic bacteria grown on *Brucella* Agar at 35°C, under anaerobic conditions.

Improved Entries with updated taxonomy

- Up-to-date taxonomy was used to develop the *Instant Anaerobe* library entries.

Reduced wear on the GC Liner

- The anaerobe extract is cleaner and GC liners last twice as long as before.

Specifications

Instant Anaerobe Start Up Kit

- Instant Anaerobic Library (IAN) – Anaerobes grown on *Brucella* Agar with 5% Sheep Blood, Hemin and Vitamin K1 at 35°C
- 3 liquid dispensers
- 1 vortexer mixer
- 1 mini centrifuge
- 2 vial rack trays
- 1 Eppendorf® reference pipette
- 100 glass conical inserts
- 200 clear 2ml GC vials
- 200 PTFE/Silicon/PTFE caps
- 3 *Instant Anaerobe* extraction reagents shipped in Qorpack bottles
- 2 cleaning/wash reagents (methanol/hexane)
- 100 - 1ul sterile inoculation loops
- 1 Tray Eppendorf® pipette tips
- 4 MIDI Pipetting Aids
- 1 GC injection port liner
- 1 vial MIDI Rapid Calibration Standard

Instant Anaerobe Refill Kit

- 100 glass conical inserts
- 200 clear 2ml GC vials
- 200 PTFE/Silicon/PTFE caps
- 3 *Instant Anaerobe* extraction reagents shipped in Qorpack bottles
- 2 cleaning/wash reagents (methanol/hexane)
- 100 - 1ul sterile inoculation loops
- 1 Tray Eppendorf® pipette tips
- 1 GC injection port liner
- 1 vial MIDI Rapid Calibration Standard

Customer Required Items

- Sherlock® Microbial Identification System version 6.0 or higher
- Agilent 6850 GC, 6890 single/dual GC or 7890 single GC
- **Acceptable growth conditions requirements**
 - o 35°C ± 2°C Incubator
 - o Anaerobic growth conditions.
Preferred approach: BD GasPak™ EZ: Anaerobe gas generating pouch system (BD Part # 260683) – 20 pouches per box
- **Growth media requirements**
 - o BBL Brand *Brucella* Agar with 5% Sheep Blood, Hemin and Vitamin K1 (BD Part # 297848) — 20 prepared plates per box
- Pasteur pipettes, 5in., disposable
- Chemical storage cabinets (for corrosives and flammables)
- Hazardous chemical waste disposal container
- Hazardous medical waste disposal container
- Chemical fume hood (may or may not be necessary depending on SOPs)

Sherlock *Instant Anaerobe Library*

Instant Anaerobe Library (IAN1)
Actinomyces-israelii
Actinomyces-meyeri
Actinomyces-naeslundii
Actinomyces-viscosus
Aggregatibacter-actinomycetemcomitans
Arcanobacterium-haemolyticus
Arcanobacterium-pyogenes
Bacteroides-caccae
Bacteroides-fragilis
Bacteroides-ovatus
Bacteroides-stercoris
Bacteroides-thetaiotaomicron
Bacteroides-uniformis
Bacteroides-vulgatus
Bifidobacterium-bifidum
Bifidobacterium-gallinarum
Capnocytophaga-sputigena
Clostridium-baratii
Clostridium-bifermentans
Clostridium-butyricum
Clostridium-cadaveris
Clostridium-clostridioforme
Clostridium-difficile
Clostridium-histolyticum
Clostridium-paraputrificum
Clostridium-perfringens
Clostridium-ramosum
Clostridium-septicum
Clostridium-sordellii
Clostridium-sphenoides
Clostridium-sporogenes
Clostridium-subterminale
Clostridium-tercium
Collinsella-aerofaciens
Eggerthella-lenta
Enterococcus-faecalis
Escherichia-coli
Eubacterium-limosum
Fingoldia-magna
Fusobacterium-mortiferum
Fusobacterium-necrophorum
Fusobacterium-nucleatum
Fusobacterium-varium
Lactobacillus-acidophilus
Lactobacillus-gasseri

Instant Anaerobe Library (IAN1)
Parabacteroides-distasonis
Parvimonas-micra
Peptoniphilus-asaccharolyticus
Peptostreptococcus-anaerobius
Porphyromonas-gingivalis
Porphyromonas-levii
Prevotella-bivia
Prevotella-buccae
Prevotella-disiens
Prevotella-intermedia
Prevotella-melaninogenica
Prevotella-oralis
Propionibacterium-acnes
Propionibacterium-granulosum
Propionibacterium-propionicum
Staphylococcus-aureus
Veillonella-dispar
Veillonella-parvula

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