

A close-up photograph of a gloved hand holding a petri dish containing a red liquid medium. A swab is being used to collect a sample from the surface of the liquid. The background is slightly blurred, showing a laboratory setting with a red grid pattern.

*Liquid Based Microbiology*

Simplify Specimen  
Collection, Transport,  
and Processing



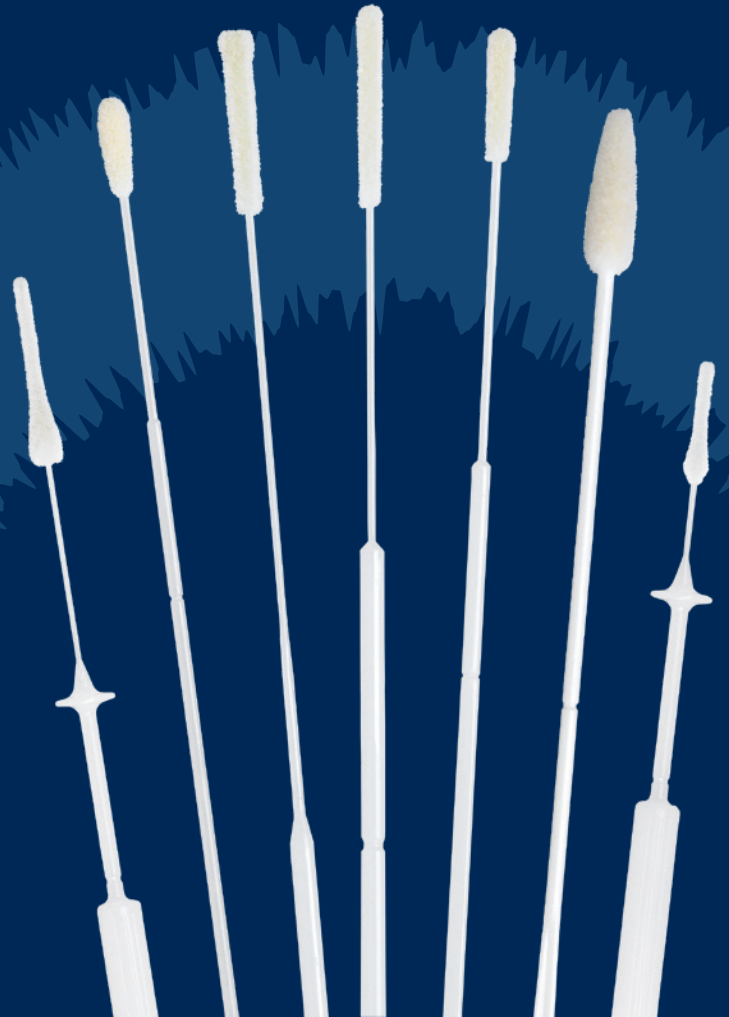
*Better Specimen Collection*

**Better Diagnostics**

Patented Original Technology  
for Optimal Sample Collection  
and Diagnostics

**FLOQSWAB®**

A molded plastic applicator shaft with tip (in varying dimensions) coated with Nylon® fibers, creating a thin absorbent layer allowing for quick sample uptake and elution of more than 90% of the sample.



## THE HISTORY OF SWAB COLLECTION AND TRANSPORT



Bacteriology transport systems date back to 1940, with the invention of Stuart transport medium, however 60 years would pass before the first international published standard for Microbiological transport systems was established.



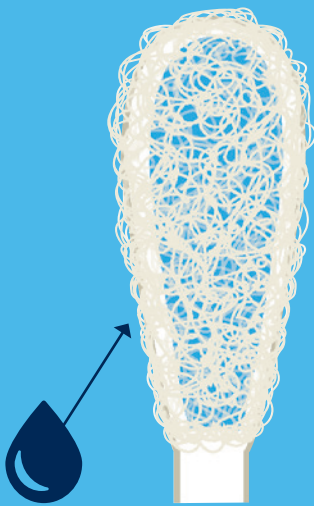
The CLSI (NCCLS) M40-A created a new performance challenge for transport devices and ignited COPAN's devotion to quality and pre-analytical innovation. In 2003, flocked swabs (branded FLOQSwabs®) were invented by COPAN, paving the way for Liquid Based Microbiology (LBM) and a new era of specimen collection, transport and processing in Clinical Microbiology.



# Why Flocked?

## *Traditional Fiber Swab*

Yards of fiber wrapped  
around applicator

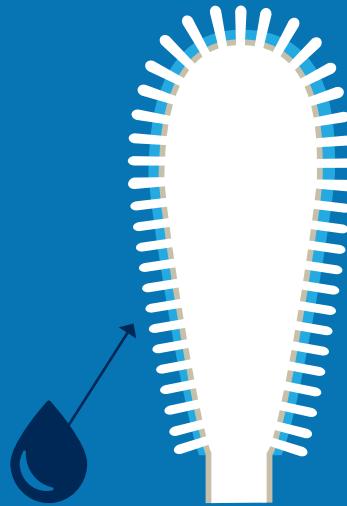


Sample is trapped  
in swab fibers

One swab  
for one test

## *FLOQSwabs®*

Nylon® fibers are applied to applicator  
using a proprietary flocking process



More than  
**90%**  
of sample  
available  
for testing

Sample stays on the surface  
efficiently eluting on contact  
with transport media

How many  
tests from  
one sample?

Multiple  
aliquots for  
various tests

### **Patent Information**

US 8,317,728 8,114,027 8,979,784 9,011,358 13/657,949 16/448,398 9,173,779 14/448,398 10,327,741 | EP1608268 | JP4579902 | AU2004226798 | CA2,515,205 | NZ541560 | SG170654 | CNZL200610099310.9



*A Liquid Solution*

# For Microbiology Samples

DEVELOPED BY COPAN IN 2006, Liquid Based Microbiology (LBM) combines state-of-the-art flocked swabs with media – transforming challenging samples into easy to process, multi-purpose liquid samples.

The LBM line includes collection, transport and processing systems for Clinical Microbiology samples.



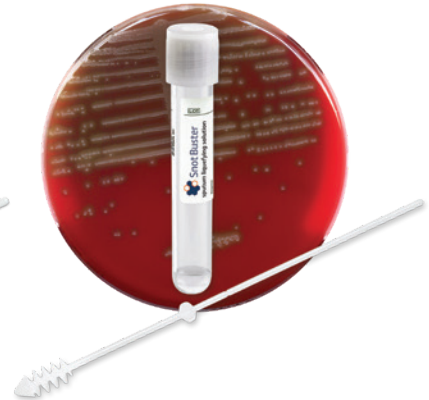
**SWABS**



**FECES**



**SPUTUM**





### ***Better Diagnostics***

FLOQSwabs® paired with a liquid based system give way to quantitative, measurable and consistent sample transfer. Evidence-based research shows that samples collected using FLOQSwabs® improve test sensitivity, eluting more than 90% of the specimen.



### ***Reduce Costs***

A broad range of testing applications eliminates costs associated with stocking and management of numerous collection devices.



### ***Patient Comfort***

Clinicians report better patient comfort due to ergonomic, anatomic swab design and softer texture. Additionally, because one sample can be used for multiple tests, fewer samples are collected from the patient.



### ***Automation Ready***

Liquid Based Microbiology systems are easily processed on automated specimen processors and liquid handling pipetting systems, minimizing manual handling.

## **Change Management**



Ready to make the switch to better Microbiology, improved patient care and laboratory cost savings? COPAN provides hands-on expertise to facilitate new product implementation. We are available to guide you with with training, verification guidance, and more!



*Evidence based, improved pathogen recovery, expanded testing capabilities, and better patient care*

## Patented Liquid Based Collection and Transport System for Microbiology Swab Samples

ESwab® is a collection and transport system FDA cleared for aerobic, anaerobic and fastidious bacteria, maintaining viability for up to 48 hours at room or refrigerator temperature (*N. gonorrhoeae* survival 24 hours per CLSI standard).



### Swabs

\* Always read the manufacturer's package insert for specific instructions regarding specimen collection and transport for the type of test kit being used.



Improved pathogen recovery for traditional bacteriology culture



Swab samples are easily processed on automated specimen processors, and automatic pipettors minimizing manual handling and maximizing investment in automation



Homogeneous sample for more consistent and precise Gram stains



Validated for molecular and rapid antigen testing on many manufacturers' platforms\*

**Innovative ESwab® system elutes over 90% of patient specimen** into the Liquid Amies transport medium. Multiple investigations can be performed from the same sample:



Multiple culture plates



Automation



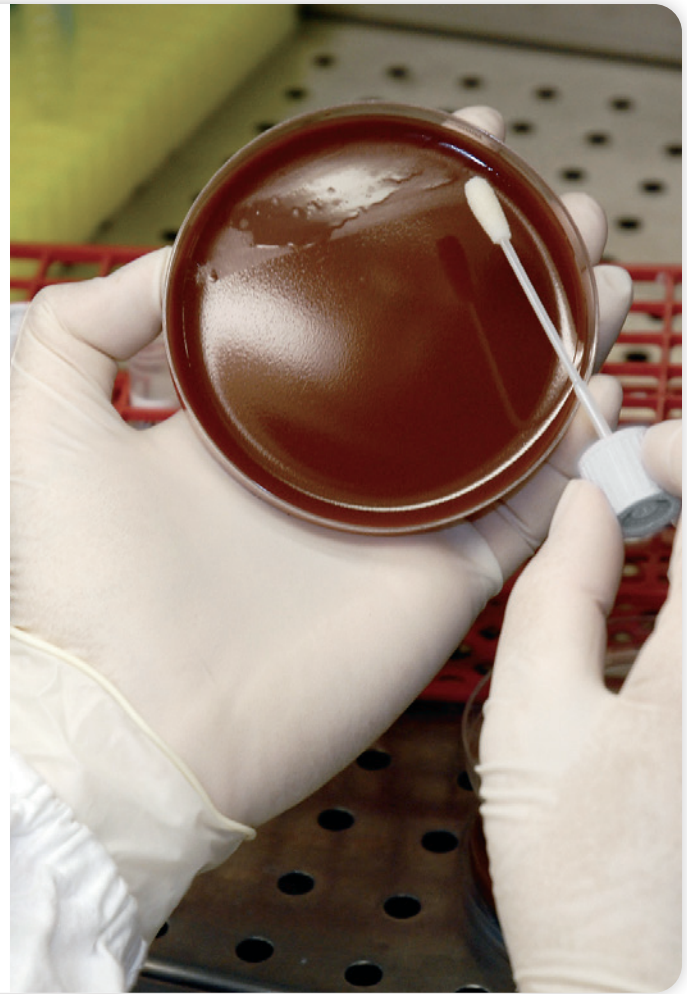
Gram stains



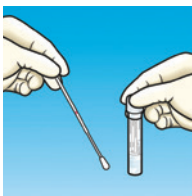
Rapid antigen tests\*



Molecular testing\*

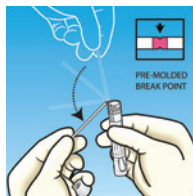


## ESwab® Collection - Quick Guide



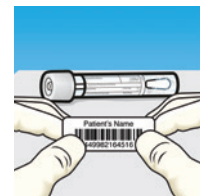
### COLLECT

- Collect the patient sample using the swab. Avoid touching the swab applicator below the pink molded breakpoint.



### SNAP

- Remove cap and insert the swab to the bottom of the tube.
- Holding the tube away from face, grasp the end of swab shaft and bend to break at the pink breakpoint.
- Screw the cap on tightly to prevent leakage.



### SEND

- Identify tube with patient information and send to laboratory.

*Specimen collection should be performed by health care personnel who have completed training and demonstrated competency. Always read the manufacturer's package insert for specific instruction regarding specimen collection and transport for the type of test kit being used.*



*Simplify and standardize fecal sample collection, transport and processing, converting fecal matter into liquid samples*

## Patented Sample Collection and Preservation System for Enteric Bacteria

FecalSwab™ is a collection and transport system FDA cleared for enteric pathogen recovery using traditional bacteriology culture.

The system is also compatible with enteric molecular assays for bacteria, viruses and parasites where package inserts indicate Cary-Blair systems for sample collection.\*



**Stool**



Smaller sample quantity, eliminating the need to vent container, preventing messy accidents during processing



Compact alternative for space efficient transport compared with traditional bulky fecal containers



Stool samples are easily processed on automated specimen processors, and automatic pipettors minimizing manual handling and mess and maximizing investment in automation

\* Always read the manufacturer's package insert for specific instructions regarding specimen collection and transport for the type of test kit being used.



## FECALSWAB™ SYSTEM FOR RECTAL COLLECTION



Speed time to treatment by collecting a sample immediately, without having to wait for the patient to submit a fecal specimen



Pediatric sample collection is simplified using the rectal swab rather than feces taken from diapers, which contain material that may cause interference in some tests

Available with intuitive stopper anatomically designed to ensure the swab tip reaches the transition zone of the rectum for standardized rectal swab sample collection

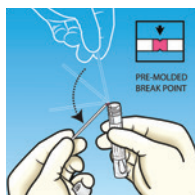


## FecalSwab™ Collection - Quick Guide



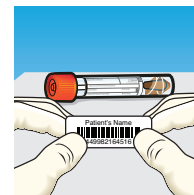
### COLLECT

- Collect a small amount of sample by rotating swab tip to cover it with feces. Avoid touching the swab applicator below the pink molded breakpoint. Bloody, slimy or watery areas should be selected when present.
- Rectal swab samples may also be used (refer to assay package insert and institution SOP).*



### SNAP

- Remove cap from the tube and insert the swab to the bottom of the tube.
- Mash and mix stool specimen against the side of the tube to disperse.
- Holding the tube away from face, grasp the end of swab shaft and bend to break at the pink breakpoint.
- Screw the cap on tightly to prevent leakage.



### SEND

- Identify tube with patient information and send to laboratory.

*Specimen collection should be performed by health care personnel who have completed training and demonstrated competency. Always read the manufacturer's package insert for specific instruction regarding specimen collection and transport for the type of test kit being used.*



*Save cost and avoid reagent waste when liquifying sputum*

## Sputum Liquefying System

SnotBuster™ is a mucolytic agent validated for liquefying sputum samples prior to culturing for the isolation of bacteria and fungi, without affecting morphology, growth or microscopic staining, and appearance of pathogens.

Easily transfer sputum samples using COPAN invented Sputum Dipper™, a unique drill-shaped tool for managing challenging sputum samples.



**Sputum**



Sputum samples are easily managed on automated specimen processors, minimizing manual handling and maximizing investment in automation



Tubes of reagent are ready to mix with sputum sample with no need for re-hydration of powder or dilution of liquid concentrate



SL Solution allows for easier more consistent and reproducible specimen planting and streaking

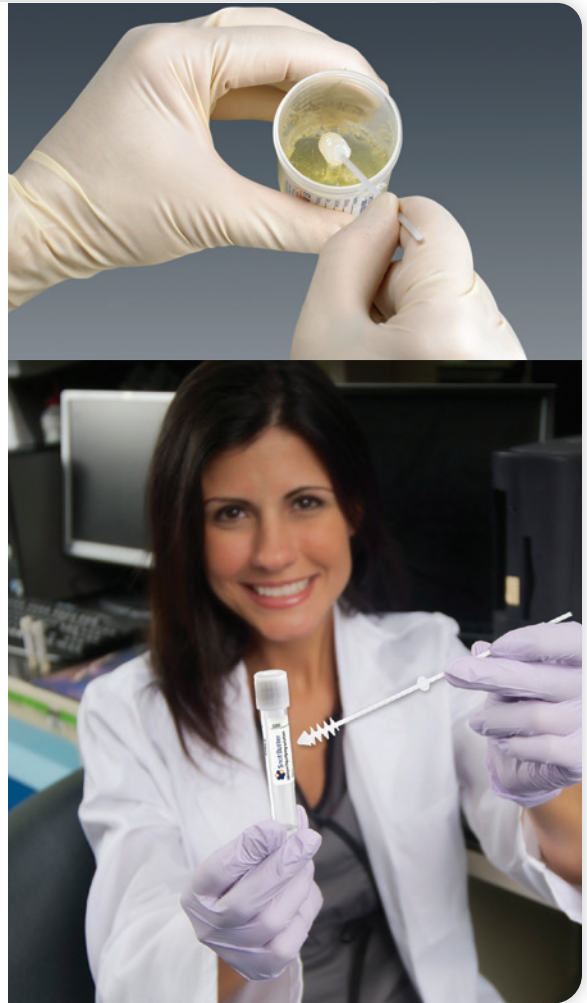


Minimize reagent waste and save cost by avoiding large batch mixing

## UNIQUE SPUTUM DIPPER FOR SIMPLIFIED SAMPLE PROCESSING



Simplify handling of challenging sputum specimens using the efficient Sputum Dipper™ tool to transfer both fluid and viscous samples



## SnotBuster™ Processing - Quick Guide



### TRANSFER

- Transfer specimen from patient container by rotating the dipper to cover with sputum.



### SNAP

- Remove cap and insert the dipper to the bottom of the tube.
- Holding the tube away from face, grasp the dipper shaft to break at the breakpoint.
- Screw the cap on tightly to prevent leakage.



### PROCESS

- Vortex for 30 seconds and leave at ambient temperature for at least 15 minutes (not to exceed 6 hours).
- Mix by vortexing for an additional 3 seconds.

*Always read the manufacturer's package insert for specific instruction regarding specimen collection and transport for the type of test kit being used.*



*Liquid Based Microbiology Opens the Door*  
**for Automated Specimen Processing**





Converting Microbiology samples to a liquid format in standardized tubes allows laboratories to enjoy maximum utility from WASP<sup>®</sup> automated specimen processor.

## Full Laboratory Automation



**COPAN's full laboratory automation line** is a modular, scalable, and customizable solution for automated specimen processing and full specimen management, automated incubation and Digital Microbiology

**CONTACT COPAN TODAY** to streamline and standardize your specimen collection and to learn more about automation in Clinical Microbiology.



# Ordering Information



**ESwab® combines a COPAN invented flocked swab with 1 mL of Liquid Amies in a plastic Self standing tube. The innovative system elutes over 90% of patient specimen into the liquid medium.**

<i>Cat. No.</i>	<i>Product Description</i>	<i>Packaging</i>
<b>ESWAB® SINGLE SWAB KIT</b>		
<b>480C</b>	12X80mm tube with white capture cap filled with 1mL Liquid Amies Transport Medium <b>+ 1 Regular Size Flocked Swab with 80mm Breakpoint</b>	50/Pack; 10 Packs/Case
<b>481C</b>	12X80mm tube with green capture cap filled with 1mL Liquid Amies Transport Medium <b>+ 1 Minitip Size Flocked Swab with 80mm Breakpoint</b>	50/Pack; 10 Packs/Case
<b>482C</b>	12X80mm tube with blue non-capture cap filled with 1mL Liquid Amies Transport Medium <b>+ 1 Flexible Minitip Size Flocked Swab with 100mm Breakpoint</b>	50/Pack; 10 Packs/Case
<b>480CFA</b>	12X80mm tube with purple non-capture cap filled with 1mL Liquid Amies Transport Medium <b>+ 1 Regular Size Flocked Swab with 80mm Breakpoint</b>	50/Pack; 10 Packs/Case
<b>ESWAB® MULTI SWAB KITS</b>		
<b>493C02</b>	12X80mm tube with white capture cap filled with 1mL Liquid Amies Transport Medium <b>+ 1 White Regular Size Flocked Swab with 80mm Breakpoint</b> <b>+ 1 Pink Regular Size Flocked Swab without Breakpoint</b>	50/Pack; 10 Packs/Case
<b>493C03</b>	12X80mm tube with white capture cap filled with 1mL Liquid Amies Transport Medium <b>+ 1 White Regular Size Flocked Swab with 80mm Breakpoint</b> <b>+ 2 Pink Regular Size Flocked Swabs without Breakpoint</b>	50/Pack; 10 Packs/Case
<b>486C</b>	12X80mm tube with white capture cap filled with 1mL Liquid Amies Transport Medium <b>+ 1 Blue Regular Size Rayon without Breakpoint with Separate Dry Round Bottom Tube</b> <b>+ 1 White Regular Size Flocked Swab with 80mm Breakpoint</b>	50/Pack; 10 Packs/Case



**FecalSwab™** combines a COPAN invented flocked swab with 2 mL of Cary-Blair medium in a plastic Self standing tube with orange capture cap.

<i>Cat. No.</i>	<i>Product Description</i>	<i>Packaging</i>
4C024S	12X80mm tube filled with 2 mL Cary-Blair Medium + 1 Regular Size Nylon® Flocked Swab with 80 mm Breakpoint	50/Pack; 10 Packs/Case
4C028S	12X80mm tube filled with 2 mL Cary-Blair Medium + 1 Regular Size Nylon® Flocked Swab with 80 mm Breakpoint and Swab Stopper	50/Pack; 10 Packs/Case



The **SnotBuster™** (also known as **SLSolution™**) system combines the COPAN invented Sputum Dipper™ with a ready to use mucolytic agent in a vacuum sealed plastic tube with capture cap.

<i>Cat. No.</i>	<i>Product Description</i>	<i>Packaging</i>
<b>SNOTBUSTER™ KIT</b>		
0U020N.A	1 mL SnotBuster™ (SLSolution™) in PET Tube + Sputum Dipper™ Transfer Device	50/box, 300/case
<b>SNOTBUSTER™ BULK MEDIA</b>		
0U019N	1 mL SnotBuster™ (SLSolution™) in PET Tube	50/box, 300/case
<b>SNOTBUSTER™ BULK TRANSFER DEVICE</b>		
2U063S01	Sputum Dipper™ Transfer Device, Individually Packaged	100/box, 1000/case

**COPAN LIQUID BASED MICROBIOLOGY PRODUCTS** are sold through our valued distribution partners. Please contact your preferred vendor for pricing and further ordering details.



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