

**Technology**

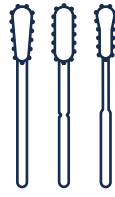
LBM®

***Liquid-Based Microbiology™***

# The liquid state of the art

Transform any specimen into  
an easy processable sample

**Copan**  
innovating together



Collection



Transport



Processing



Artificial Intelligence

*What's Liquid-Based Microbiology?*

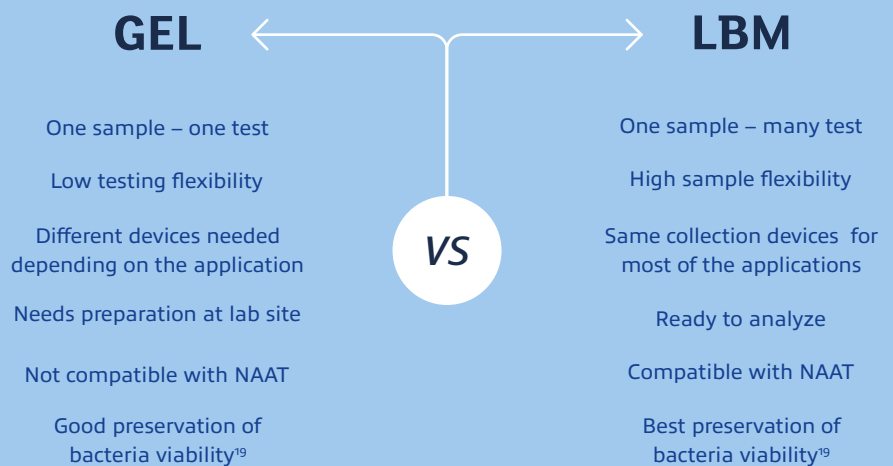
## Another step toward the preanalytics revolution

If the times of semi-solid agar-based sample transport systems are long gone, it's thanks to the conception of Copan's Liquid-Based Microbiology™. Evolved from the revolutionary FLOQSwabs®, **Liquid-Based Microbiology™ is today the gold standard of microbiology specimen transport that transforms specimens into easy-to-process, automatable, and multi-purpose liquid samples.** Since the marketing of eSwab® back in 2006, many liquid media have been added to the LBM® family, so **there are almost no clinical microbiology specimens that cannot be collected, transported, or processed in a liquid medium.**

*Why Liquid-Based Microbiology?*

## Designed to meet modern labs' needs

Contemporary clinical microbiology laboratories face significant challenges, with demands to optimize their workflow and minimize costs<sup>1</sup>. Additionally, advances in healthcare and the COVID-19 pandemic have made it necessary for labs to incorporate molecular biology and novel diagnostic techniques into their daily routines<sup>2</sup>. Not keeping pace with these changes could have serious consequences. To support these labs in improving their workflow, we developed almost two decades ago the concept Liquid-Based Microbiology™ as an alternative to traditional gel media.



## The benefits of LBM

LBM's pioneer preanalytics solution – often imitated but never matched – offers numerous advantages for microbiology labs seeking top efficiency and high-quality results<sup>3</sup>. **The same specimen collected with a multipurpose LBM media can be used for a broad range of applications:** culture, Gram stain, antigen detection, and molecular assays. **This eliminates the need for multisampling, improving patient comfort and reducing plastic waste and operational costs associated with stocking numerous collection devices and collected samples.** Moreover, samples in a liquid format are easily processed on automated specimen processing instruments, reducing manual processes and workload for medical and laboratory staff and bringing standardization to the next level.

### Pros for everyone

#### FOR THE LABORATORY

Ready to use  
sample

Less risk of  
receiving improper  
samples - fewer  
refused samples

Automatable

Long stability

Flexible for any  
testing technology

Reduces workload

Reflexing test  
always possible

Reflexing test  
always possible

Low risk of  
contamination

Reduced  
hands-on time

Broadly validated by  
diagnostics  
companies

#### FOR THE PATIENT

More comfort  
thanks to the FLOQ  
technology

Avoids  
multisampling

Ergonomic,  
anatomic swab  
design and softer  
texture

Less invasive  
sample collection

No more unpleasant  
aluminum shafts for  
NP, urethral, ear, and  
eye collection

#### FOR THE COLLECTION STAFF

Only few collection  
devices

Improves  
standardization

Standardized  
training  
for all the devices

Reduces the risk of  
using the wrong  
device – less risk of  
recalling the patient

More efficient stock  
management

#### FOR THE HEALTHCARE CENTER PROCUREMENT

Less product  
codes to manage

Less plastics –  
reduced waste and  
more sustainability

IVDR and  
MDR ready

Less risk of scrap  
and discard

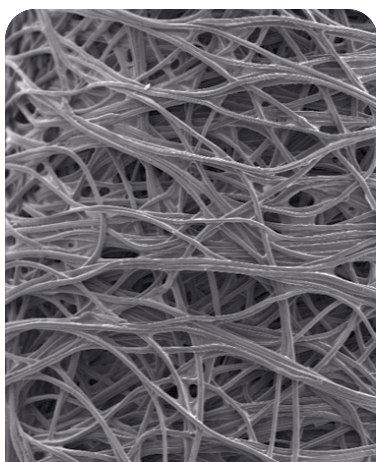
Reduces cost of  
the logistics



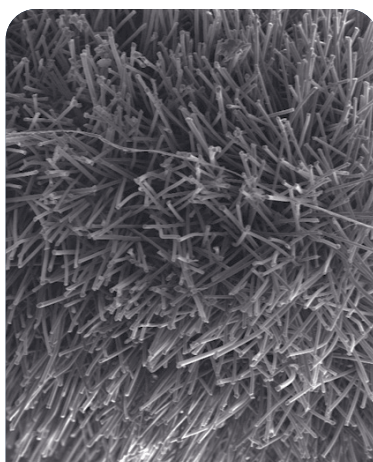
## Where it all started



FLOQSwabs® is the swab that reinvented sample collection. It consists of a customizable molded plastic shaft and a tip coated with perpendicular short Nylon® fibers – applied through our patented FLOQ® technology – that ensures **a quick, capillarity-driven sample uptake and an efficient elution of the biological specimen**<sup>4,5,6</sup>. All our LBM® media can be paired with FLOQSwabs® to expand your downstream testing capabilities and ensure an unmatched specimen collection in many anatomical collection sites.



Microscope image of fiber swab

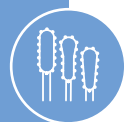


Microscope image of FLOQSwabs®



### *Superior performance*

Unlike other swabs, FLOQSwabs® have no internal core to trap the sample, allowing rapid adsorption and ensuring fast elution of more than 90% of the sample.



### *Designed for multiple collection sites*

Various shaft and tip dimensions made FLOQSwabs® a well-tolerated alternative to invasive and costly collection procedures in many anatomical sites.



## Multipurpose collection and transport media for traditional bacteriology culture



Copan Liquid Amies Elution Swab (eSwab®) is our multipurpose medium designed for collecting and transporting swab specimens from the collection site to the testing laboratory. eSwab® **stabilizes the viability of aerobes, anaerobes, and fastidious bacteria from swab specimens for bacterial culture**. Additionally, it can be used to preserve **bacterial, viral, or Chlamydial antigens and nucleic acids from swab specimens for antigen and molecular testing**.

### Advanced stability and preservation

eSwab® stabilized the viability of all the organisms tested for 48 hours at room and refrigerated temperature<sup>7</sup>, except for *Neisseria gonorrhoeae* cultures, which should be processed within 24 hours. It preserves bacterial, viral, or Chlamydial antigens and nucleic acids from swab specimens for five days at room temperature, 7 days if stored at 4°C, and up to 6 months if stored at -20° C<sup>8,9</sup>.

### CLSI M40-A2 compliant and 510(k) cleared

eSwab® is compliant with CLSI M40-A2 Quality Control for Microbiological Transport System standards, and 510(k)-cleared by FDA.

### Multiple testing capabilities

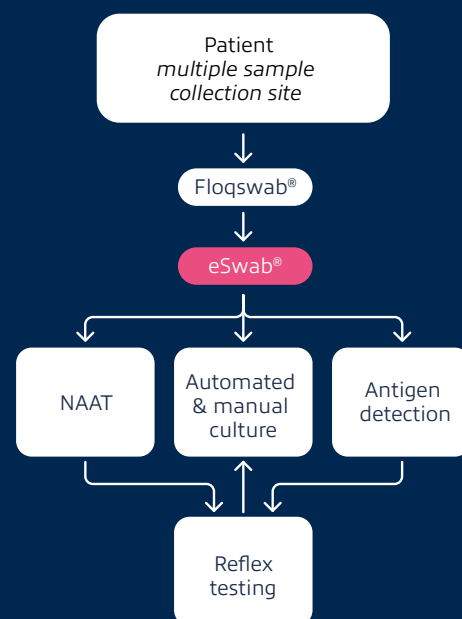
eSwab® is compatible with a broad range of downstream testing applications. Thanks to its liquid formulation, it can be used to run various tests from a single specimen, reducing the costs of multiple sampling and stocking. eSwab® is the only Amies-based transport media with an official claim for the use with NAAT, already validated and included in over 20 IFU of diagnostics molecular assays.

### Scientific soundness

Over the past 15 years, eSwab® has been cited in more than 120 peer-reviewed papers – striking results compared to the three scientific citations of the leading competitor.

### Versatile

eSwab® is available in combination with different swab geometry to fit any collection site and as an MRSA collection kit, in combination with 2 or 3 swabs for this specific application.



## Collection, transport & preservation device for enteric pathogens



FecalSwab® is a modified Cary-Blair medium designed to stabilize enteric pathogenic bacteria's viability during transport to the testing laboratory. It features higher preserving properties at different storage conditions than traditional media and dry containers, and it is validated **for bacterial culture<sup>10</sup> and molecular-based assays<sup>11,12,13</sup>**. Compatible with both stool and rectal swabs, FecalSwab® is available with a standard FLOQSwabs® and a specialized FLOQSwabs® with a stopper to collect anal, perianal samples, and feces.



### *The right device for the evolving GI diagnostics*

FecalSwab® perfectly matches the need of an evolving GI diagnostics landscape. From culture to NAAT, its flexibility allows FecalSwab® to be used in any testing workflow, with the possibility of having enough high-quality samples for reflex or backup testing.



### *Sample stability*

FecalSwab® preserves collected specimens for 48h at room temperature or 72h at refrigerated temperature. In the case of *C. difficile* culture investigation, Copan FecalSwab® stabilizes collected specimens for up to 24h at room temperature and 48h at refrigerated temperature.



### *Enhanced shelf-life and simplified transport*

FecalSwab® VI-PAK metallic foil and plastic film barrier block oxygen entry, preventing unwanted oxidation of the transport medium. In addition, its shatterproof tubes are a compact and neat alternative to large, bulky transport containers.



### *Rectal and stool sampling*

FecalSwab® can be used by medical staff to transfer a small amount of sample from the primary stool collection container or to collect a rectal swab sample directly.



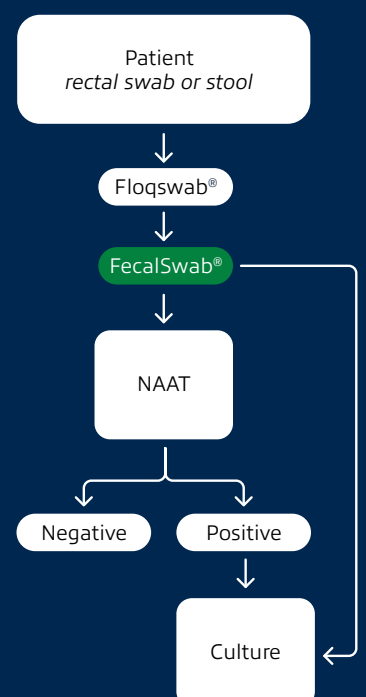
### *CLSI M40-A2 Compliant*

FecalSwab® is compliant with CLSI M40-A2 Quality Control for Microbiological Transport System standards.



### *FDA 510(k) cleared for both culture and NAAT*

FecalSwab® is FDA 510(k) cleared for bacterial culture application as well as for use as a transport system for molecular testing with BD Max Enteric panel and Extended Enteric panel. It is also included in numerous IFU of GI panel assays.



**Universal medium  
for collection, transport, and preservation of viruses**



UTM® is our Hanks' Balanced Salt Solution, suitable for the **collection, transport, and long-term freeze storage of viruses, chlamydia, mycoplasma, and ureaplasma**. UTM® is compatible with viral culture, antigen detection<sup>14</sup>, and molecular assays<sup>15</sup>.



**Enhanced stability**

UTM® HBSS's unique formulation includes proteins, sugars, and a pH indicator to preserve viral viability for 48 hours at room temperature. In addition, its antibiotics and antimycotics prevent the overgrowth of bacterial and fungal flora.



**Convenient format**

UTM® capture-cap – to dock and secure the swab shaft for easier tube handling – skirted, shatterproof conical tubes, and multiple (1 - 10 mL) fill volumes ensure safe handling and versatility.



**Glass beads**

Three glass beads in each tube facilitate the release and dispersion of patient material and virus particles from the swab during vortexing.



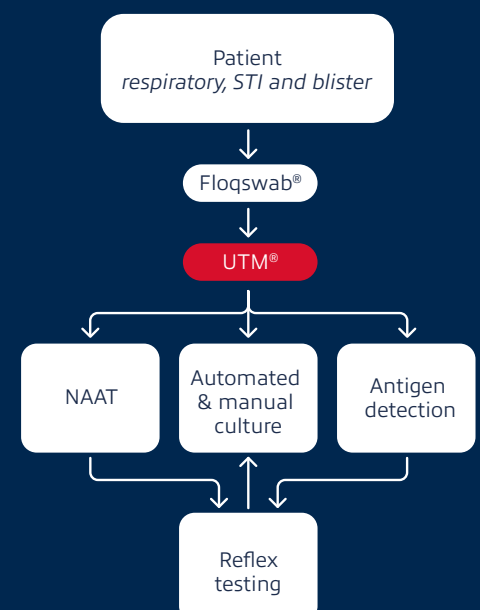
**CLSI M40-A2 Compliant**

UTM® is compliant with CLSI M40-A2 Quality Control for Microbiological Transport System standards.



**Virology Gold standard**

Over 50 virology diagnostic tests included UTM® as the preferred sample transport media.





## Sputum-liquifying device for respiratory tract pathogens



SLsolution™ (Sputum Liquefying solution) is a ready-to-use **mucolytic agent for the rapid liquefaction of sputum specimens**<sup>16</sup>. SLsolution™ can be used before the plating and streaking of fungi and bacteria (*Mycobacteria spp.* Excluded) that cause respiratory tract infections without affecting their vitality and morphology.



### Quick fluidification

Effective sputum fluidification after 30 minutes at room temperature. SLsolution™ has been tested and validated for liquefying sputum samples prior to culturing for the isolation of bacteria and fungi without affecting the morphology, growth, or microscopic staining and appearance of pathogens.



### Simplified fluidification phase

SLsolution™ is available in bulk, in a kit with a single-use transfer pipette, or a kit with the Sputum Dipper. The combination of SLsolution™ with the Sputum Dipper – our tool designed to ease the processing of sputum samples – helps to eliminate issues caused by viscous samples.



### No rehydration needed

No need for rehydration of powder or dilution of liquid concentrate. SLsolution™ is ready to be mixed with your sample.



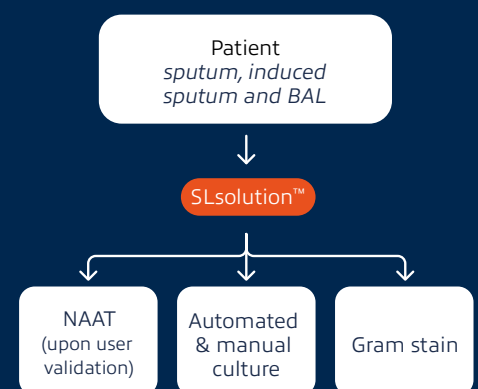
### Preservation and shelf-life

SLsolution™ comes with a shelf-life of 12 months at room temperature. Preservation of microorganisms is guaranteed for up to 6 hours at room temperature.



### Convenient

With SLsolution™, you can avoid the costs and waste of making your own reagents for liquifying sputum.



Among transport and processing media, the Copan LBM® family includes a **full range of enrichment and selective broths** for the most common aerobic and anaerobic bacteria. All of them are stable at room temperature, don't need pretreatment and preparation, and their screw cap tube format fits most laboratory equipment.

Ready to use → Save preservation time

Single use → NO waste

Room temperature storage → NO refrigeration needed

#### **Selenite Broth™**

Selenite Broth™ is a selective and enrichment broth for *Salmonella enterica* spp and *Shigella sonnei*. It is compatible with both Classic stool samples and FecalSwab® samples.

#### **TSB Salt Enrichment Broth™**

TSB Salt™ is a medium specifically intended for the isolation of *S. aureus* spp. After incubation, TSB Salt Broth™ is intended to enrich a specimen suitable for subculture on selective MRSA agar plates.

#### **BHI (Brain Heart Infusion) Enrichment Broth™**

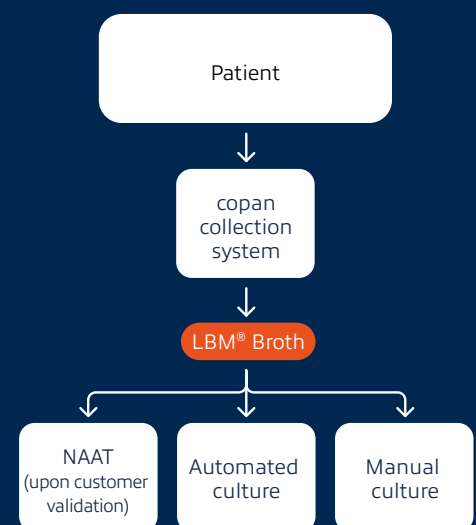
BHI broth™ is a medium specifically intended for fastidious bacteria, including *Streptococcus pneumoniae* and *Staphylococcus aureus*.

#### **LIM Enrichment Broth™**

The LIM medium™ is a modification of Todd Hewitt Broth and is specifically intended to isolate and enrich Group B *Streptococcus*.

#### **Thiol Broth™**

Thiol medium™ is a universal enrichment broth for anaerobic bacteria and obligatory microorganisms. Its tube is also designed to enable turbidity check for strict anaerobes after 24h.



Still skeptical?

## A real-life experience

Read Prof. Carla Fontana's real-life experience in switching from gel-based to liquid media.

*"In our laboratory, we adopted the LBM system in 2008 and used it for a variety of tests, including culture, Gram staining, and many molecular assays. [...] **The Copan LBM device family has allowed us to optimize the workflow in the laboratory, especially for its suitability for a variety of testing methods,** [...] Our findings demonstrate the appreciable changes in the workflow and, of course, the advantages due to the LBM introduction. **Unification of collection systems can reduce manual processing and determine the standardization of procedures.** All of these are basic stages that microbiologists must prepare to accept and introduce in the laboratory for good microbiological practice and the benefit of the patient. The real challenge for the microbiologists, in the next years, is the ability to catch the novelties and to introduce them in the diagnostic process also by adapting and connecting them to several different technologies. We believe that our work is an example of this process of changing."*<sup>3</sup>

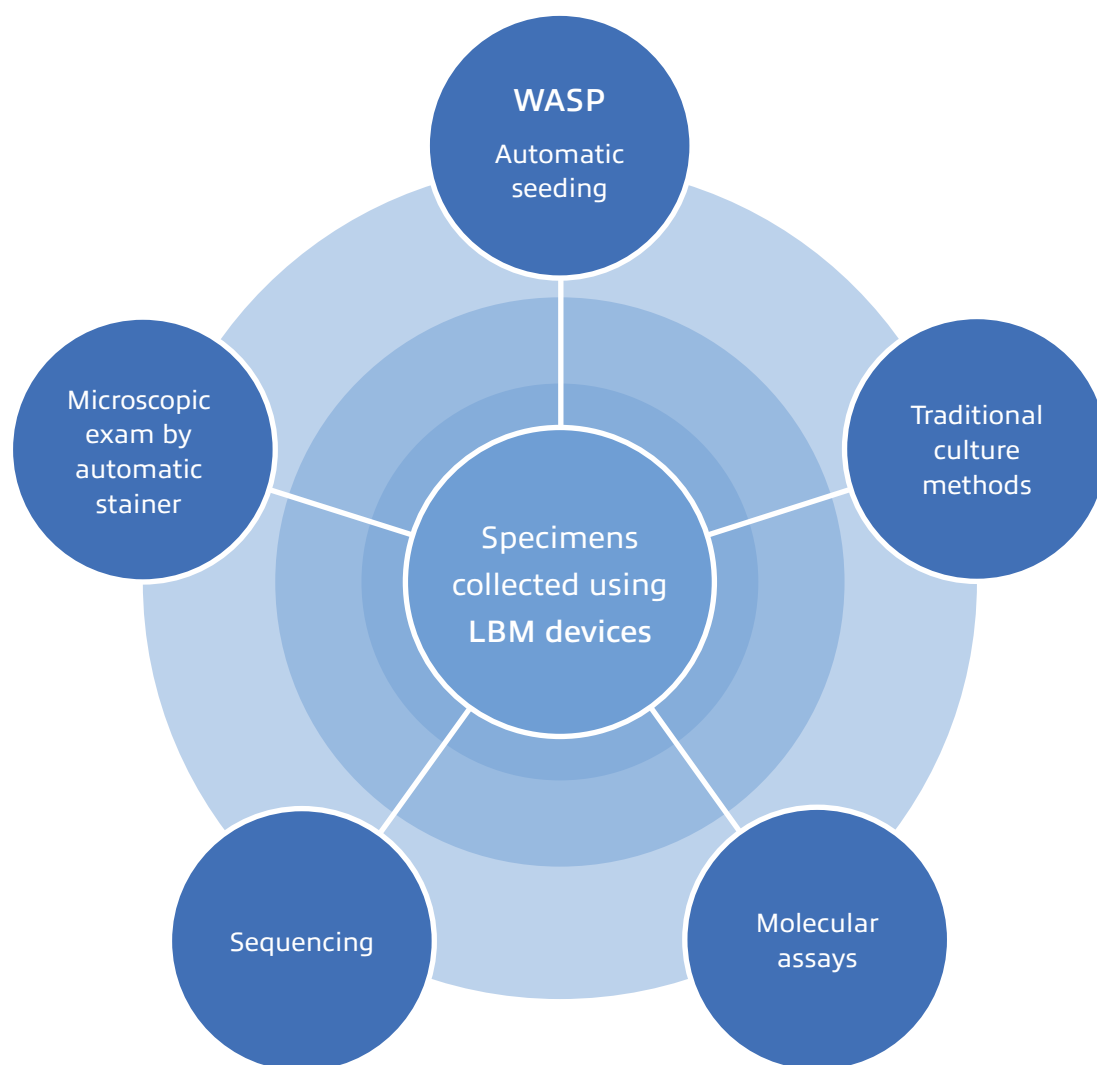


Figure 1. Central role of LBM devices in a multidirectional and multi-tasking laboratory.



WASP®

## Gone liquid? Go automated.

Compared to gel media, **liquid media can be easily processed on automated specimen processors and liquid handling systems**, minimizing manual touchpoints for reduced human error, unparalleled precision, and improved standardization. All Copan LBM® tubes are designed explicitly to be loaded and processed by our Walk-Away Specimen Processor WASP for bacteriology application and Universe for molecular biology sample preparation.

Full Lab Automation

## And it's just the beginning!

WASP® is just your first step into microbiology automation. Copan's WASPLab® preanalytical Full Lab Automation ecosystem begins at the streaking phase and – combining hardware modules with integrated image analysis software and Artificial Intelligence – takes care of reading, interpreting, and picking activities<sup>17,18</sup>.



Service

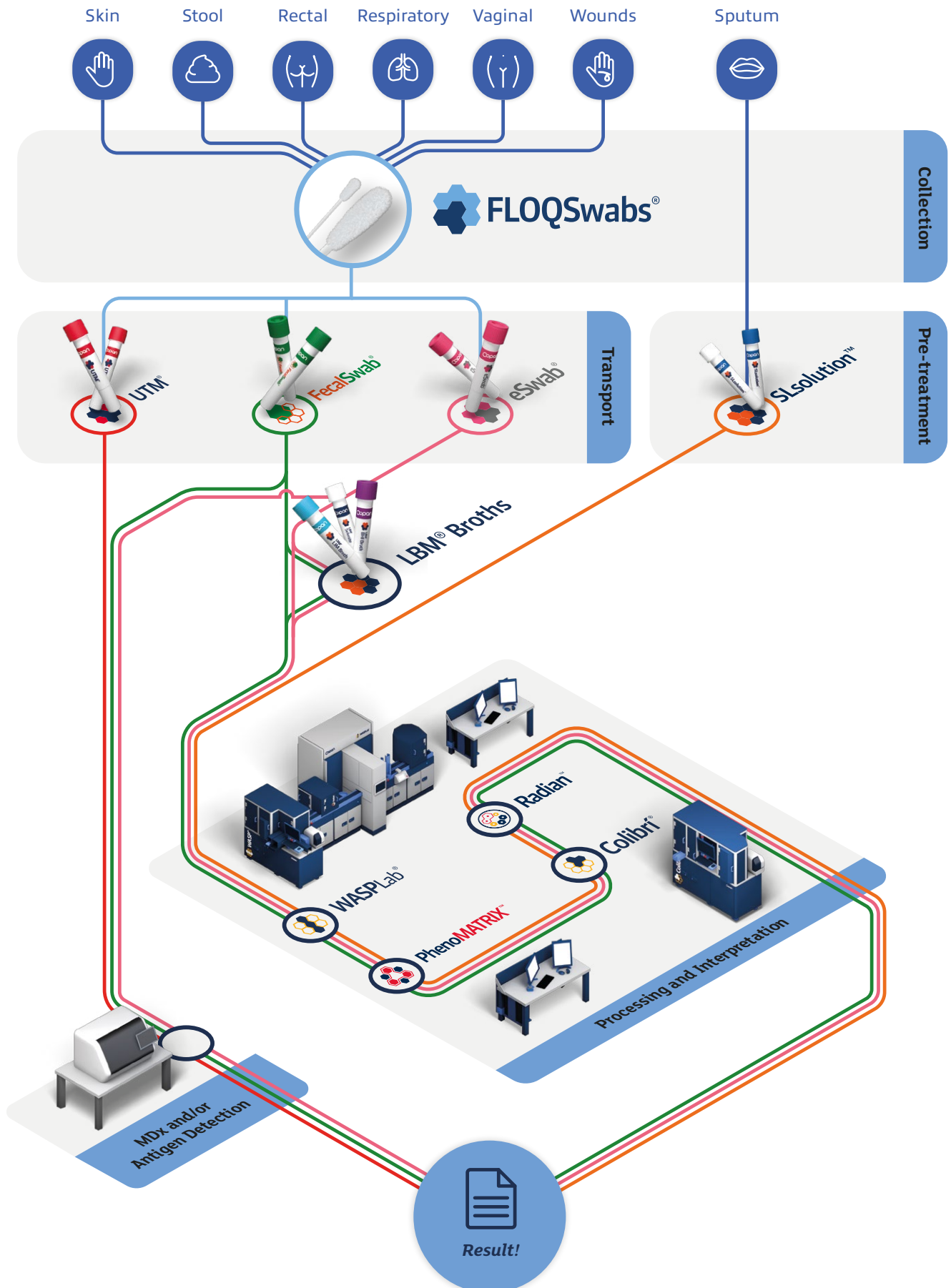
## Make the first move



Ready to switch to better Microbiology?

We provide hands-on expertise to facilitate new product implementation. Moreover, our in-house R&D, design, and manufacture guarantee prompt fine-tuning, service, and customization of your whole preanalytics workflow.

*Contact us, and we'll discuss to assist with training, guidance, and more!*





This picture is meant only for flow demonstration purposes and the data reported are not intended to replace the Instructions for Use (IFU). Always refer to the IFU for the final application compatibility or refer to a Copan representative. For molecular and antigen detection applications refer to the device's manufacturer IFU for final compatibility.






Below you can find a selection of the best-selling formats of our Liquid-Based Microbiology media.  
 For the complete list of product codes, please consult our website, or contact us.

### Ordering information eSwab®

Cat N.	Description	Pack size	Sample*
480CE	<p>Screw-cap tube filled with 1 ml of Liquid Amies Medium            + 1 regular FLOQSwabs® with molded breaking point</p> 	500 pieces 10 vipaks of 50 pieces	Nose, throat,vagina, rectum and wound
481CE	<p>Screw-cap tube filled with 1 ml of Liquid Amies Medium            + 1 minitip FLOQSwabs® with molded breaking point</p> 	500 pieces 10 vipaks of 50 pieces	Eye, ear,throat, nasal passages and urogenital tracts
482CE	<p>Screw-cap tube filled with 1 ml of Liquid Amies Medium            + 1 flexible FLOQSwabs® with molded breaking point</p> 	500 pieces 10 vipaks of 50 pieces	Nasopharynx and pediatric
483CE	<p>Screw-cap tube filled with 1 ml of Liquid Amies Medium            + 1 ultra-thin minitip FLOQSwabs® with molded breaking point</p> 	500 pieces 10 vipaks of 50 pieces	Urogenital tract
484CE	<p>Screw-cap tube filled with 1 ml of Liquid Amies Medium            + 1 mini flexible FLOQSwabs® with molded breaking point</p> 	500 pieces 10 vipaks of 50 pieces	Pediatric
492CE03	<p>Screw cap tube filled with 1 ml of Liquid Amies Medium            + 1 white regular FLOQSwabs® + 1 purple ultra-thin            minitip FLOQSwabs® + 1 light green flexible FLOQSwabs®</p> 	500 pieces 10 vipaks of 50 pieces	Refer to the additional Instruction for Use available with the product.

<i>Cat N.</i>	<i>Description</i>	<i>Pack size</i>	<i>Sample*</i>
493CEo2	<p>Screw-cap tube filled with 1 ml of Liquid Amies Medium + 2 regular FLOQSwabs® with molded breaking point</p> 	<p>500 pieces 10 vipaks of 50 pieces</p>	<p>MRSA sample collection (nose, throat, perineum)</p>
493CEo3	<p>Screw-cap tube filled with 1 ml of Liquid Amies Medium + 3 regular FLOQSwabs® with molded breaking point</p> 	<p>500 pieces 10 vipaks of 50 pieces</p>	<p>MRSA sample collection (nose, throat, perineum)</p>



## Ordering information **FecalSwab®**

<i>Cat N.</i>	<i>Description</i>	<i>Pack size</i>	<i>Sample*</i>
470CE	<p>FecalSwab® for manual use, 12x80mm tube filled with 2 ml Modified Cary Blair medium + 1 regular FLOQSwabs®</p> 	<p>500 pieces 10 vipaks of 50 pieces</p>	<p>Stool container, rectal</p>
4Eo48S	<p>FecalSwab® for manual use, 12x80 mm tube filled with 2 ml of Modified Cary Blair medium + 1 regular FLOQSwabs® with stopper</p> 	<p>500 pieces 10 vipaks of 50 pieces</p>	<p>Stool container, rectal</p>
4Uo31S	<p>12x80mm tube filled with 2 ml Modified Cary Blair medium + regular FLOQSwabs®</p> 	<p>300 pieces 6 boxes with 50 tubes + 1 resealable pack of 50 stool transfer devices</p>	<p>Stool container</p>






## Ordering information UTM®

Cat N.	Description	Pack size	Sample*
305C	16x100mm tube filled with 3ml UTM® medium + 1 flexible minitip FLOQSwabs® with molded breaking point 	500 pieces 10 vipaks of 50 pieces	Eye, ear, nasal passages, nasopharynx, throat, urogenital tracts and pediatric sites
307C	16x100mm tube filled with 3ml UTM® medium + 1 minitip FLOQSwabs® with molded breaking point 	300 pieces (6 boxes of 50 kits)	Eye, ear, nasal passages, nasopharynx, throat, urogenital tracts and pediatric sites
359C	12x80mm tube filled with 1ml UTM® medium + 1 regular FLOQSwabs® with molded breaking point 	300 pieces (6 boxes of 50 kits)	Nose, throat, vagina, rectum, faeces and wounds
360C	12x80mm tube filled with 1ml UTM® medium + 1 flexible minitip FLOQSwabs® with molded breaking point 	300 pieces (6 boxes of 50 kits)	Eye, ear, nasal passages, nasopharynx, throat, urogenital tracts and pediatric sites
330C	16x100mm tube filled with 3ml UTM® medium + 1 flexible minitip FLOQSwabs® with molded breaking point 	500 pieces 10 vipaks of 50 pieces	Eye, ear, nasal passages, nasopharynx, throat, urogenital tracts and pediatric sites
350C	16x100mm tube filled with 3ml UTM® medium + 1 minitip FLOQSwabs® with molded breaking point 	300 pieces (6 boxes of 50 kits)	Eye, ear, nasal passages, nasopharynx, throat, urogenital tracts and pediatric sites

## Ordering information **SLSolution™**

<i>Cat N.</i>	<i>Description</i>	<i>Pack size</i>	<i>Sample*</i>
<b>oE003N</b>	SLSolution™ kit: 1ml of DTT in liquid phase, in PET tube + 1 sterile Pasteur pipet for sputum sample transfer 	300 pieces (6 boxes of 50 kits)	Respiratory samples
<b>oE005N</b>	SLSolution™: 1ml of DTT in liquid phase, in PET tube in bulk 	300 pieces (6 boxes of 50 kits)	Respiratory samples

## Ordering information **LBM® Broth**

<i>Cat N.</i>	<i>Description</i>	<i>Pack size</i>	<i>Sample*</i>
<b>474CE.A</b>	BHI Broth 3ml in Screw Cap Tube in bulk 	300 pieces 6 boxes of 50 pieces	eSwab®, liquid sample, swab sample
<b>4U002N</b>	THIOLE Broth 4ml in PET Tube in bulk 	300 pieces 6 boxes of 50 pieces	eSwab®, liquid sample, culture colony
<b>477CE.A</b>	TSB Broth plus 2.5% NaCl, 2ml in Screw Cap Tube in bulk 	300 pieces 6 boxes of 50 pieces	eSwab®, liquid sample, swab sample
<b>475CE.A</b>	SELENITE Broth 2ml in Screw Cap Tube in bulk 	300 pieces 6 boxes of 50 pieces	eSwab®, Fecalswab®
<b>476CE.A</b>	LIM Broth 2ml in Screw Cap Tube 	300 pieces 6 boxes of 50 pieces	eSwab®

\*Suggested table. Please refer to your GLP procedures to choose the most appropriate device for the specific sampling site

## Scientific references

All the studies we cited in this product focus are listed here.

1. Leo S, Cherkaoui A, Renzi G, Schrenzel J. Mini Review: Clinical Routine Microbiology in the Era of Automation and Digital Health. *Front Cell Infect Microbiol.* 2020 Nov 30;10:582028.
2. M Blondeau J. Clinical microbiology laboratories and COVID-19: the calm before the storm. *Future Microbiol.* 2020 Oct;15(15):1419-1424.
3. C. Fontana, M. Favaro and C. Favalli, et al. How Liquid Based Microbiology Can Change the Workflow in the Microbiology Laboratories. *Advances in Microbiology*, Vol. 3 No. 6, 2013, pp. 504-510.
4. Zasada, A.A., Zacharczuk, K., Woźnica, K. et al. The influence of a swab type on the results of point-of-care tests. *AMB Expr*, 2020
5. Patrick Kiio Munywoki, Fauzat Hamid, Martin Mutunga, et al. Improved detection of respiratory viruses in pediatric outpatients with acute respiratory illness by Real-Time PCR using nasopharyngeal Flocked swabs. *Journal of Clinical Microbiology*, 2011.
6. Avika Misra, David J. Speicher, Kathy Luinstra, et al. Self-collected oral flocked swabs to measure prevalence of Epstein-Barr Virus antibodies and DNA amongst university students. *Diagnostic Microbiology and Infectious Disease*, 2021.
7. Tops SCM, Kolmus M, Wulms D, van Ingen J, Wertheim HFL, Kolwijck E. Recovery of aerobic gram-negative bacteria from the Copan Eswab transport system after long-term storage. *Diagn Microbiol Infect Dis.* 2020 Sep;98(1):115100.
8. Mattei V, Murugesan S, Al Hashmi M. Evaluation of Methods for the Extraction of Microbial DNA From Vaginal Swabs Used for Microbiome Studies. *Front Cell Infect Microbiol.* 2019 Jun 6;9:197.
9. Federman DG, Gupta S, Stack G, et al. SARS-CoV-2 detection in setting of viral swabs scarcity: Are MRSA swabs and viral swabs equivalent? *PLoS One.* 2020 Aug 5;15(8):e0237127.
10. Arena F, Di Pilato V, Vannetti F, et al. Population structure of KPC carbapenemase-producing *Klebsiella pneumoniae* in a long-term acute-care rehabilitation facility: identification of a new lineage of clonal group 101, associated with local hyperendemicity. *Microb Genom.* 2020 Jan;6(1):e000308.
11. Lecronier M, Tashk P, Tamzali Y, et al. Gut microbiota composition alterations are associated with the onset of diabetes in kidney transplant recipients. *PLoS One.* 2020 Jan 7;15(1):e0227373.
12. Bhavanam S, Freedman SB, Lee BE, et al. Differences in Illness Severity among Circulating Norovirus Genotypes in a Large Pediatric Cohort with Acute Gastroenteritis. *Microorganisms.* 2020 Nov 26;8(12):1873.
13. Richard-Greenblatt M, Rutherford C, Luinstra K, et al. Evaluation of the FecalSwab for Stool Specimen Storage and Molecular Detection of Enteropathogens on the BD Max System. *J Clin Microbiol.* 2020 Aug 24;58(9):e00178-20.
14. Bianco G, Boattini M, Barbui AM, et al. Evaluation of an antigen-based test for hospital point-of-care diagnosis of SARS-CoV-2 infection. *J Clin Virol.* 2021
15. Corman VM, Haage VC, Bleicker T, et al. Comparison of seven commercial SARS-CoV-2 rapid point-of-care antigen tests: a single-centre laboratory evaluation study. *Lancet Microbe.* 2021 Jul;2(7):e311-e319.
16. Carter S, Keogan B, O'Reilly P, et al. Detection of respiratory viruses in cystic fibrosis: comparison of nasal FLOQSwabs™ and sputum using the FilmArray® platform. *J Cyst Fibros.* 2019 Jun;18:S107.
17. Karissa Culbreath, Heather Piwonka, John Korver, et al. Benefits Derived from Full Laboratory Automation in Microbiology: a Tale of Four Laboratories. *Journal of Clinical Microbiology*, 2021
18. Cherkaoui, G. Renzi, N. Vuilleumier, et al. Copan WASPLab automation significantly reduces incubation times and allows earlier culture readings *Clinical Microbiology and Infection*, 2019.
19. Tyrrell KL, Citron DM, Leoncio ES, et al. Comparison of the Copan eSwab System with an Agar Swab Transport System for Maintenance of Fastidious Anaerobic Bacterium Viability. *J Clin Microbiol.* 2016 May;54(5):1364-7.







This document may contain product information otherwise not accessible or valid in your country. Please be aware that Copan Italia S.p.A. does take any responsibility for accessing such information which may not comply with any valid legal process, regulation, registration or usage in the country of your origin. Product clearance and availability restrictions may apply in some Countries. Please refer to Copan website ([www.copangroup.com](http://www.copangroup.com)) to view and/or download the most recent version of the brochure. This document is mainly intended for marketing purposes, always consult product insert for complete information. The use of this product in association with diagnostic kits or instrumentation should be internally validated by the user. ©2023 Copan Italia. All rights reserved. The trademarks mentioned herein are property of Copan Italia S.p.A.  
Code: JMKCo47Roo.EN



@copangroup

**Copan Italia s.p.a.**  
Via Francesco Perotti 10,  
25125 Brescia, Italy

t | f +030 2687211  
@ | [info@copangroup.com](mailto:info@copangroup.com)  
[www.copangroup.com](http://www.copangroup.com)