

**MSwab®**

# Dual Purpose Medium for collection, transport and preservation of bacteria and viruses





MSwab® is intended for the collection, transport and preservation of clinical specimens from the collection to the testing site. In the laboratory, specimens collected in MSwab® system can be analysed using standard clinical procedures for:

- Nucleic acid detection from bacteria and viruses
- Viral culture of HSV 1 and HSV 2 viruses
- Bacterial culture of aerobic and facultative anaerobic gram-positive microorganisms



#### ***FLOQSwabs®***

Ensure a quick, capillarity-driven sample uptake and a superior elution of the biological specimen, expanding downstream diagnostic testing capabilities.



#### ***DNA & RNA stabilization***

MSwab® ensures the stabilization of bacterial and viral nucleic acid.



#### ***Direct nucleic acids extraction***

MSwab® unique formula enables a 5 minutes preparation of a crude lysate with a rapid direct nucleic acid heat extraction, eliminating the need for the purification step.



#### ***M40-A2***

MSwab® is fully compliant with M40-A2 Quality Control for Microbiological Transport System standards.

FLOQswabs®

## Cut out for everyone

FLOQswabs® offer **variable sizes, diameters, breaking points and tip shapes to be used in plenty of applications.** This made FLOQswabs® a well-tolerated alternative to invasive, painful, and costly collection procedures<sup>7,8</sup>.

**Do you have a specific application in mind?  
Choose the right FLOQswabs®!**



### Fields of application

## Prenalytics made different



### Respiratory Diseases <sup>1,2,3,4</sup>

Regular, minitip and flexible minitip



### STI & HPV <sup>5</sup>

Regular and minitip



### Gastrointestinal Diseases <sup>6,7</sup>

Regular



### Veterinary <sup>8</sup>

Regular

### Preservation

## MSwab® performance

Specimens collected using MSwab® for NAAT should be processed within 14 days when stored at room temperature (20 – 25 °C), within 21 days when stored at 4°C and within 6 months when stored at -20° C.

According to the vast scientific literature, MSwab® showed to be able to preserve specimens for RSV molecular detection at -80 C before processing<sup>6</sup>.



## Viability Preservation

### MSwab® performance

Copan MSwab® preserves specimens for bacterial or viral investigations up to 48h when stored at room or refrigerated (4-8°C) temperature.

*Staphylococcus aureus* (ATCC® 29213 and ATCC 6538) and Methicillin-resistant *Staphylococcus aureus* (ATCC® 43300 and ATCC® 700698) viability have been tested with MSwab up to 72h at room temperature and 14 days at refrigerated temperature (4-8°C). Viral viability has been preserved after -70°C freeze storage.

## Laboratory

### Handling and Processing

In the laboratory, sample processing can be done using manual or automated procedure: MSwabs® is compatible with Copan Universe®

Samples collected with MSwab® are suitable for bacterial and viral nucleic acids detection, bacterial culture of aerobic and facultative anaerobic gram-positive microorganisms, and viral culture of HSV 1 and HSV 2 viruses.

Scientific literature reports sample collection and transport with MSwab® prior to many downstream diagnostic assays:

- RT-PCR and LAMP (Loop mediated isothermal amplification)<sup>1,2,3,4,8</sup>
- Chromogenic culture<sup>6,7</sup>



#### UniVerse®

### Flexible and open solution for molecular testing sample preparation

With UniVerse®, you can automate sample preparation for molecular testing: tube decapping and recapping, vortexing, barcode identification, and liquid transfer to secondary tubes or 96-well plates. UniVerse® handles indiscriminately different tube sizes and different shaft types without requiring to remove the swab from the tube. With its four different operational modes, UniVerse® integrates impeccably into your lab's workflow through a 2-way LIS exchange.

## Ordering information

Choose between different medium fill volumes, in bulk packs or in combination with either FLOQSwabs® or polyester fiber swabs.

<i>Cat N.</i>	<i>Description</i>	<i>Pack size</i>	<i>Sample*</i>
<b>6E011N</b>	1ml MSwab® transport and preservation medium in 12x80mm screw cap tube 	300 pieces 6 boxes of 50 pieces	
<b>6E012N</b>	1ml MSwab® transport and preservation medium in 12x80mm screw cap tube + 1 regular FLOQSwabs® 	300 pieces 6 boxes of 50 pieces	Nasal, throat, vaginal, groin, armpit, rectal, wound and faeces
<b>6E013N</b>	1ml MSwab® transport and preservation medium in 12x80mm screw cap tube + 1 thin & flexible FLOQSwabs® 	300 pieces 6 boxes of 50 pieces	Nasopharyngeal
<b>6E076N</b>	3 ml MSwab® transport and preservation medium in 16x100 screw cap tube 	300 pieces 6 boxes of 50 pieces	
<b>6U019N</b>	2ml MSwab® transport and preservation medium in 12x80mm screw cap tube 	300 pieces 6 boxes of 50 pieces	
<b>6E092N01</b>	3ml MSwab® transport and preservation medium in 16x100mm screw cap tube + 1 thin & flexible FLOQSwabs® 	300 pieces 6 boxes of 50 pieces	Nasopharyngeal

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

### Accessories:

- 2E013S50 - Tube with glass beads
- PFT1Wg13R100 - Closure white caps

## Scientific references

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

1. Schnee SV et al (2017) Performance of the Alere i RSV assay for point-of-care detection of respiratory syncytial virus in children. *BMC Infect Dis.* 17(1):767
2. Mahony J et al (2013) Development of a sensitive loop-mediated isothermal amplification assay that provides specimen-to-result diagnosis of respiratory syncytial virus infection in 30 minutes. *J Clin Microbiol.* 51(8):2696-701
3. Mahony J et al (2013) Multiplex loop-mediated isothermal amplification (M-LAMP) assay for the detection of influenza A/H1, A/H3 and influenza B can provide a specimen-to-result diagnosis in 40 min with single genome copy sensitivity. *J Clin Virol.* 58(1):127-31
4. Peters RM et al (2017). Evaluation of Alere i RSV for Rapid Detection of Respiratory Syncytial Virus in Children Hospitalized with Acute Respiratory Tract Infection. *Journal of clinical microbiology*, 55(4), 1032–1036.
5. Badman SG et al (2021) A comparison of ThinPrep against four non-volatile transport media for HPV testing at or near the point of care. *Pathology.* 53(2):264-266
6. Peterson LR et al (2017) Performance of the cobas MRSA/SA Test for Simultaneous Detection of Methicillin-Susceptible and Methicillin-Resistant *Staphylococcus aureus* From Nasal Swabs. *Am J Clin Pathol.* 148(2):119-127
7. von Allmen N et al (2019) Liquid and Dry Swabs for Culture- and PCR-Based Detection of Colonization with Methicillin-Resistant *Staphylococcus aureus* during Admission Screening. *Eur J Microbiol Immunol (Bp).* 9(4):131-137
8. Heers T ET AL (2017) Loop-mediated isothermal amplification (LAMP) assay-A rapid detection tool for identifying red fox (*Vulpes vulpes*) DNA in the carcasses of harbour porpoises (*Phocoena phocoena*). *PLoS One* 12(9):e0184349





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