

The new generation of preanalyticals

Σ-Transwab®

Σ-VCM[®]

Σ-Virocult®

Σ-Swab®







Σ-Transwab, liquid transport for automated & conventional processing.





New collection vial

- Screw cap for sample integrity and security
- Compatible with most automatic decapping systems
- Integral swab capture no further manual handling of swab shaft required
- Colour coded caps according to format and application
- Self-standing for convenience
- Inner conical base can be centrifuged
- Shatterproof polypropylene

New Sigma-swab®

- Soft polyurethane foam bud preferred by patients
- High absorbency for optimum sample uptake
- Open cell for complete flow through of medium and reagents ²⁴⁻²⁸
- Maximum release of microorganism
- Entire specimen is released into liquid phase
- Breakpoint for easy handling, ensures exact fit of swab in tube and swab capture
- Fine-tip option available for urethral and nasopharyngeal specimens

New transport medium

- Liquid Amies for automated and conventional processing
- Liquid Amies provides suspension for quick
 Gram stain and multiple cultures
- Liquid Amies maintains viability of Aerobes, Anaerobes, and Fastidious bacteria for up to 48 hours at ambient and refrigerated temperatures (as required for M40 compliance)^{1,3,29}
- Rapid elution of specimen allows accurate and quantitative dilutions
- Stable at room temperature for 24 months

Σ-Transwab®

Σ-Transwab[®]- The all new system for specimen collection and transport.

Transwab® was the first commercially produced gel transport swab, and for many years has led the field for reliable microbiological specimen collection and transport. A programme of continous development has kept Transwab® ahead of changes in laboratory science and regulatory requirements, so that it remains a trusted partner in the diagnosis of infectious disease¹-8. Sigma-Transwab® combines all of this experience in an all-new format and technology for the new era of liquid preanalytical microbiology, while remaining completly suitable for conventional methodologies.

The specimen is collected by swab into the tube containing 1 ml of Liquid Amies Transport Medium. The microorganisms from the initial specimen are dispersed throughout the medium, producing a uniform suspension ready for use, either in an automatic sampling and inoculation system, or directly with any of the many rapid molecular tests currently available. The process is enhanced by the incorporation of an open-celled foam-tipped swab which allows complete flow through of the liquid medium, reagents, and microorganism. This increases the sensitivity of any diagnostic procedures.

The vial, made from shatterproof polypropylene, has a conical base, and can be centrifuged if required. The base is skirted, so the tube is free standing for convenience of use at the bench, while the new screw cap ensures secure containment of liquids. The cap also incorporates an ingenious swab capture mechanism. Thus when the swab is placed in the tube, snapped at its break point and broken, and the cap screwed home, the swab is "captured" securely, so that when the cap is removed, whether manually or mechanically, the swab is automatically removed with the cap.

Sigma-Transwab® is also available in two further formats with colour coded caps.

Sigma-Transwab® (dual format) has two standard swabs with breakpoints, and is convenient when a patient is being swabbed at multiple sites, such as for MRSA-screening. The dual format does not use the swab capture mechanism.

Sigma-Transwab® (mini-tip format) uses a narrow fine-tip shaft, also with a foam tip, and is particularly suited for nasopharyngeal and urethral specimens. This does not use the swab capture mechanism.

All variants of Sigma-Transwab® are M40-A compliant, suitable for aerobic, anaerobic and

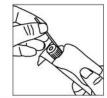
fastidious microorganisms, and can be transported at ambient or refrigerator temperatures.

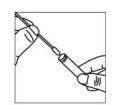
Absorption

The liquid medium is based on the original formulation of Amies, but without charcoal. It can be used immediately for Gram stains at the time of

collecting the specimen, and transported securely whether by external courier or internal pneumatic system. All Sigma-Transwabs® are CE-marked, and conform to the requirements of the European Medical Devices Directive and In Vitro Medical Devices Directives^{31,32}.















Σ-VCM[®], for Viruses, Chlamydia, Mycoplasmas & Ureaplasmas



Sigma- VCM®

Sigma-Swab®, with new VCM® medium for viruses, Chlamydia, Mycoplasmas & Ureaplasmas

Sigma-Swab®

- Open-celled foam bud
- Optimum absorption and release
- Optimum performance with molecular test systems 24-28

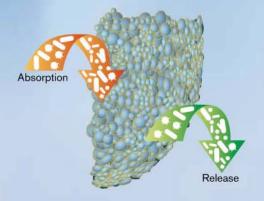
VCM medium

- Optimum recovery of target organisms
- Optimum compatibility with molecular test systems
- Antibiotics inhibit contaminating bacteria and
- Choise of fill volume

New collection vials

- Screw cap for sample integrity and security
- Compatible with most automatic decapping systems
- Self-standing for convenience
- Inner conical base can be centrifuged
- Shatterproof polypropylene





Σ-Swab* features unique open cell structure for optimum absorbance and realease of microorganisms and reagents.

Σ-VCM[®]

Σ -VCM , with new VCM medium for Viruses, Chlamydia, Mycoplasma & Ureaplasmas



Sigma-VCM® retains the qualities of Virocult® medium⁹⁻²³, but has been adapted to make it suitable not only for viruses, but also for chlamydia, mycoplasma, ureaplasmas,

and certain important fastidious bacteria. The base medium allows survival and recovery of the target organisms, while a new cocktail of antimicrobials prevents the growth of most contaminating bacteria and fungi in the specimen which could compromise its integrity.

Glass beads in the medium, when vortexed, help to break open cells for the release of intracellular organisms, such as chlamydia & viruses. A version without beads is also available.

Sigma-VCM® is supplied with Sigma-swabs®24-28, the open cell foam tipped swabs which allow optimum uptake and release of target microorganisms, and complete flow-through of reagents for optimum sensitivity for molecular test protocols. Standard Sigma-swab® is suitable for general swab applications such as skin lesions, nose and throat. Mini-tip Sigma-swabs® are suitable for nasopharyngeal and urethral sampling.

Internal studies have shown that Sigma-VCM® will recover viruses, chlamydia, mycoplasmas and ureaplasmas so that they can be identified, either by gold standard culture methods, and by the new molecular techniques that have become routine for most laboratories.

Sigma-VCM® will also recover certain fastidious bacteria such as *Neisseria gonorrhoeae*, making it the ideal swab device for STD clinics.

Sigma-VCM® is available in a range of formats, reflecting the many applications for which it can be used. It is supplied as a sterile device comprising a self-standing conical based vial with 1ml or 3ml of VCMTM medium, and a choice of 1 or 2 Sigma-swabs®, 1 or 2 mini-tip Sigma-swabs®, or one of each. All standard versions come with glass beads in the medium. It is also possible to have Sigma-VCM® without beads, or to have tubes containing 1ml or 3ml of VCMTM medium (with beads).

















Σ-Virocult, with classic Virocult medium for virus isolation and identification



Sigma-Swab®

- Open-celled foam bud
- Optimum absorption and release
- Optimum performance with molecular test systems
- Standard shaft or ENT/urethral

Virocult® medium

- Optimum recovery of target organisms
- Optimum compatibility with molecular test systems
- Antibiotics inhibit bacteria and fungi
- Recovers wide range of respiratory, genital and enteric viruses
- Transport specimens at ambient temperatures
- Choise of fill volume

Sigma-Virocult® combines Medical Wire's open cell bud Sigma-Swab®24-28 with Virocult® medium9-23, for long the leading transport medium for virus specimens. Virocult® medium can be used with traditional cell culture techniques, or the many current molecular techniques.

Virocult® has long been recognised as one of the best transport devices for viruses, demonstrating survival of many types of virus at ambient temperatures, including Herpes Simplex Virus, Varicella–Zoster Virus, Influenza Type A (including Novel H1N1, H5N1, and H3N2), Influenza Type B, respiratory syncytial virus, mumps virus, adenovirus, rhinovirus, and various enterovirus.

Virocult® medium stabilises the virus particles allowing long survival, and also contains antimicrobials to prevent the growth of any bacteria and fungi present in the specimen. These features make it suitable for cell culture based analysis, but



Σ-Virocult[®]

For virus isolation and identification

many studies in recent years have shown Virocult® to be completely compatible with many of the newer molecular techniques such as DFA, ELISA and PCR.

Virocult® & Sigma-Virocult® have been validated according to CLSI's M40-A standard for viral culture transport devices, which requires survival of reference strains for at least 96 hours at ambient or refrigerated temperatures.

Sigma-Virocult® is supplied with Sigma-Swab®, the open cell foam tipped swabs which allows optimum uptake and release of target microorganisms, and complete flow-through of reagents for optimum sensitivity for molecular test protocols. Standard Sigma-Swab® is suitable for general swab applications such as skin lesions, nose and throat. Sigma-Swab® ENT /urethral is suitable for nasopharyngeal and urethral sampling.

Sigma-Virocult® is supplied as a sterile device comprising a self-standing conical based vial with 2ml of Virocult® medium, and a choice of 1 or 2 standard Sigma-Swab®, 1 fine-tip Sigma-Swab® ENT/urethral, or one of each. It is stored at room temperature, with a shelf life of 1 year.











Specimens, once collected, can be transported under ambient or refrigerator temperature conditions. Sigma-Virocult® is CE-marked, and conforms to the requirements of the European Medical Devices Directive and In Vitro Medical Devices Directives.



Σ-Swab®

Σ-Swab[®]- the medium free transport system

- No dilution of sample
- No overgrowth
- No non-viables
- Suitable for bacteria, fungi, viruses
- Open-celled, inert structure allows free access to reagents for direct testing

Sigma-Swabs®.

Medical Wire's Sigma-Swab® features a special polyurethane foam tip (standard or ENT fine-tip). Studies have shown that a dry polyurethane foam-tipped swab can be used for the transport of many micro-organisms. The soft-foam bud is more comfortable for patients, and has significant advantages for both conventional and molecular methods²³⁻²⁸.

In-house and published studies show that Sigma-Swab® maintains many classes of organisms in stable numbers, including bacteria²⁶⁻²⁸, fungi, viruses²³, and mycoplasma. It is particularly useful for MRSA

screening, with good recovery and no overgrowth. Absorbent foam-tipped swabs have been shown to be superior to flocked swabs when used with a rapid antigen test for influenza²⁴.

Sigma-Swab® is available with two bud types. The standard version

has a normal sized bud suitable for general purpose swabbing such as wounds, including surgical wounds, skin, mouth, nose and throat. The fine-tip version (Mini Sigma-Swab®) has a narrow shaft and is especially suited for urethral and nasopharyngeal sampling.

Sigma-Swab® and Mini Sigma-Swab® are supplied sterile in peel pouch, tubed and tubed-duo formats.

Ordering information

Code	Vial	Fill	Swab Configuration*	Сар
Sigma Transwab				
MW167S	Small	1.0ml	2 Standard Sigma Swabs with break point	White
MW176S	Small	1.0ml	1 Standard Sigma Swab with break point	Purple
MW177S	Small	1.0ml	1 Mini tip Sigma Swab with break point	Orange
Sigma VCM				
MW910S	Small	1.0ml	1 Standard Sigma Swab with break point	Red
MW911S	Small	1.0ml	1 Mini tip Sigma Swab with break point	Red
MW912S	Small	1.0ml	1 Standard, 1 Mini tip Sigma Swab with break point	Red
MW915T	Small	1.0ml	Tube Only	Red
MW916T	Small	3.0ml	Tube Only	Red
MW918S	Large	3.0ml	1 Standard Sigma Swab with break point	Red
MW919S	Large	3.0ml	1 Mini tip Sigma Swab with break point	Red
MW920S	Large	3.0ml	1 Standard, 1 Mini tip Sigma Swab with break point	Red
MW921S	Large	3.0ml	2 Standard Sigma Swabs with break point	Red
MW924S	Large	1.5ml	2 Standard Sigma Swabs with break point, no glass beads	Red
MW925	Large	3.0ml	1 Standard Rayon Swab with break point	Red
MW926T	Large	3.0ml	Tube Only	Red
Sigma Virocult				
MW950S	Large	2.0ml	1 Standard Sigma Swab with break point	Green
MW950SENT	Large	2.0ml	1 Mini tip Sigma Swab with break point	Green
MW950S2	Large	2.0ml	2 Standard Sigma Swabs with break point	Green
MW950SE2	Large	2.0ml	1 Standard, 1 Mini tip Sigma Swab with break point	Green
MW950T	Large	2.0ml	Tube Only	Green
MW951S	Small	1.0ml	1 Standard Sigma Swab with break point	Green
MW951SENT	Small	1.0ml	1 Mini tip Sigma Swab with break point	Green
MW951T	Small	1.0ml	Tube Only	Green
Sigma Swab				
MW940			Sigma Swab and Peel Pouch	
MW941			Sigma Swab Individually Tubed and Labelled	
MW942			Duo Sigma Swab in Single Tube and Labelled	
MW943			Mini tip Sigma Swab and Peel Pouch	
MW944			2 Sigma Swabs and Peel Pouch	
MW945			1 Standard , 1 Mini Sigma Swab and Peel Pouch	

^{*} The position of the breakpoint varies according to product. For variants with swab capture, the breakpoint is set to ensure that after breaking, the swab fits into the cap. For variants without swab capture, the breakpoint is set to allow the swab to sit within the vial without contact with the cap.

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