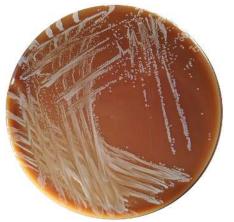


# **INSTRUCTIONS FOR USE**

# GC MEDIUM BASE BIOVITEX, VCN, VCNT

Dehydrated culture medium and supplements



Neisseria gonorrhoeae on Modified Thayer Martin Medium

## VCN Antimicrobic Supplement

Vial contents for 500 mL of medium		
Vancomycin	1.50 mg	
Colistin	3.75 mg	
Nystatin	6250 IU	

# VCNT Antimicrobic Supplement

Vial contents for 500 mL of medium		
Vancomycin	1.50 mg	
Colistin	3.75 mg	
Nystatin	6250 IU	
Trimethoprim	2.50 mg	

#### 1 - INTENDED USE

*In vitro* diagnostic. General purpose medium, used with various enrichments and selective supplements, for the isolation and cultivation of *Neisseria gonorrhoeae*, *Haemophilus* spp. and other fastidious microorganisms, from clinical specimens.

# 2 - COMPOSITIONS

### GC Medium Base

Typical formula after reconstitution with	1 L of water*
Peptocomplex	15 g
Starch	1 g
Dipotassium hydrogen phosphate	4 g
Potassium dihydrogen phosphate	1 g
Sodium chloride	5 g
Agar	12 g

\*The formula may be adjusted and/or supplemented to meet the required performances criteria.

# Biovitex/Restoring Fluid

Vial contents for 500 mL of medium				
Diphosphopyridine nucleotide	1.250 mg			
Cocarboxylase	0.500 mg			
p-Aminobenzoic acid	0.065 mg			
Thiamine HCl	0.015 mg			
Vitamin B <sub>12</sub>	0.050 mg			
L-Glutamine	50.000 mg			
L-Cystine	5.500 mg			
L-Cysteine HCI	129.500 mg			
Adenine	5.000 mg			
Guanine HCI	0.150 mg			
Ferric nitrate	0.100 mg			
Glucose	500.000 mg			

# 3 - PRINCIPLE OF THE METHOD AND EXPLANATION OF THE PROCEDURE

In 1945, Johnston<sup>1</sup> described a medium that could successfully produce colonies of *N. gonorrhoeae* in 24 hours. This medium was later modified by Carpenter and Morton<sup>2</sup> using GC Medium Base with the addition of haemoglobin and a yeast concentrate (chocolate agar). The medium was further improved by replacing yeast concentrate with a chemically defined supplement, formulated specifically to facilitate the growth of gonococci.<sup>3</sup> In 1964 Thayer and Martin<sup>4</sup> proposed a selective medium for the cultivation of *N.gonorrhoeae* and *N. meningitidis*, incorporating haemoglobin, yeast supplement B, polymyxin B and ristocetin into GC Agar. Thayer and Martin improved in 1966<sup>5</sup> the formulation substituting the original antibiotics with vancomycin, colistin and nystatin (VCN). In 1970 Martin and Lester<sup>6</sup> modified the new Thayer Martin Medium by increasing agar and glucose content and by incorporating an additional antibiotic, trimethoprim lactare; this improved medium is called Modified Thayer-Martin (MTM) medium. Martin and Lewis<sup>7</sup> in 1977 further improved the selectivity of MTM by increasing the vancomycin concentration from 3.0 µg/mL to 4.0 µg/mL to achieve greater inhibition of gram-positive bacteria and replacing nystatin with anisomycin (VCA/ VCAT) to achieve greater inhibition of yeasts; this medium is known as Martin-Lewis Agar.

In 1969 Hovig and Aandahl<sup>®</sup> formulated a selective medium for the isolation of *Haemophilus* spp. from respiratory tract, incorporating bacitracin into chocolate agar. In 1973 Chapin and Doern<sup>9</sup> described a chocolatized medium with bacitracin, vancomycin and clindamycin for the selective recovery of *H. influenzae* from specimens contaminated with upper respiratory tract microbial flora.

GC Medium Base is therefore the basal medium of choice to be supplemented with enrichments and selective compounds for the isolation and cultivation of *Neisseria* spp., *Haemophilus* spp. and other fastidious pathogenic microorganisms from clinical specimens.

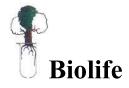
Peptocomplex provides carbon, nitrogen and trace elements for bacterial growth, sodium chloride maintains the osmotic balance, dibasic and monobasic potassium phosphates buffer prevent pH changes due to amine production, corn starch is included to absorb toxic by-products contained in the specimen and is an energy source for bacterial growth.<sup>10</sup>

With GC Medium Base it is possible to prepare a variety of enriched and selective media including: chocolate agar enriched, Thayer Martin medium and Modified Thayer Martin medium; the formulas of the mentioned media are summarized in the table below.

**Chocolate agar enriched (CAE)** is intended for cultivation and isolation of fastidious microorganisms such as *Haemophilus* spp. and *Neisseria spp.* from a variety of sterile and non-sterile clinical specimens. For normally non-sterile human sites it is advised to use chocolate agar enriched together with a selective medium. Heated horse blood provides hemin (X factor) required for growth of *Haemophilus* and enhancing growth of *Neisseria.* The medium is supplemented with Biovitex that supplies V factor (NAD) for *Haemophilus* growth and vitamins, amino acids, coenzymes, dextrose, ferric ions and other factors which improve the growth of pathogenic *Neisseria.* 

Thayer Martin Medium (TM) and Modified Thayer Martin Medium (MTM) are selective and enriched media intended for the isolation of *Neisseria gonorrhoeae* from non sterile human sites contaminated by mixed flora of bacteria and/or fungi. Vancomycin inhibits Gram positive bacterial contamination, nystatin is an anti-fungal agent, colistin inhibits Gram negative microbial flora and almost all saprophytic *Neisseria* spp., trimethoprim suppresses *Proteus* swarming.





# 4- DIRECTIONS FOR MEDIA PREPARATION

Chocolate agar enriched (haemoglobin)

Prepare a double strength GC Medium Base by suspending 19 g of in 250 mL of purified water. Mix thoroughly, heat with frequent agitation and boil for about 1 min.

Prepare a 2% haemoglobin solution by dissolving 5 g of haemoglobin powder in 250 mL of warm purified water.

Autoclave separately the GC Medium Base and haemoglobin solution at 121 °C for 15 min.

Cool the autoclaved solutions to approximately 47-50 °C.

To 250 mL of cooled double strenght GC Medium Base, aseptically add 250 mL of haemoglobin solution and the contents of one vial of Biovitex reconstituted with 5 mL of Restoring Fluid (REF 424009). Mix gently but thoroughly and distribute into sterile Petri dishes or tubes, or other sterile containers.

#### Chocolate agar enriched (cooked blood)

Suspend 19 g in 500 mL of cold purified water. Heat to boiling with frequent agitation and sterilize by autoclaving at 121°C for 15 minutes. Cool to 47-50°C and aseptically add 5-10% of the defibrinated horse blood and heat to 80°C for 15 minutes with agitation. Cool to 47-50°C and add 5 mL of Biovitex reconstituted as described above. Mix gently but thoroughly and distribute into sterile Petri dishes or tubes, or other sterile containers.

#### Selective media for Neisseria (TM and MTM)

Suspend 19 g in 500 mL of cold purified water. Heat to boiling with frequent agitation and sterilize by autoclaving at 121°C for 15 minutes. Cool to 47-50°C and aseptically add 5-10% of the defibrinated sheep blood and heat to 80°C for 15 minutes with agitation. Cool to 47-50°C and add 5 mL of reconstituted Biovitex as described above and the contents of one vial of VCN Antimicrobic Supplement (cat. No. 4240007), reconstituted with 5 mL of sterile purified water (Thayer-Martin medium) or the contents of one vial of VCNT Antimicrobic Supplement (cat. No. 4240008) reconstituted with 5 mL of sterile purified water (modified Thayer-Martin's medium). Instead of heated sheep blood, GC Medium Base can be supplemented with a sterile solution of bovine hemoglobin: 5 g of hemoglobin in 250 mL of water, sterilized in an autoclave + 250 mL of double strength GC Medium Base, autoclaved.

Mix gently but thoroughly and distribute into sterile Petri dishes or tubes, or other sterile containers.

#### **5 - PHYSICAL CHARACTERISTICS**

Dehydrated medium appearance	beige, fine, homogeneous, free-flowing powder
Solution appearance	beige, limpid
Prepared plates appearance	brown, opaque
Final pH at 20-25 °C	$7.2 \pm 0.2$

#### 6 - MATERIALS PROVIDED - PACKAGING

Product	Туре	REF	Pack
GC Medium Base	Dehydrated medium	4015202	500 g (13,1 L) CND: W0104010101; EDMA:14.01.01.01; RDM: 1868096/R
Biovitex-Restoring Fluid	Enrichment supplement	4240009	5 + 5 vials, each for 500 mL of medium CND : W0104010104; EDMA: 14.01.01.04 RDM: 1892682/R
Biovitex-Restoring Fluid	Enrichment supplement	42185011	1 vial of Biovitex+1 vial of 50 mL Restoring Fluid for 5000 mL of medium. CND: W0104010104, EDMA: 14.01.01.04; RDM: 1892687/R
VCN Antimicrobic Supplement	Selective supplement	4240007	10 vials, each for 500 mL of medium CND: W0104010104; EDMA: 14.01.01.04; RDM: 1892758/R
VCNT Antimicrobic Supplement	Selective supplement	4240008	10 vials, each for 500 mL of medium: CND:W0104010104; EDMA: 14.01.01.04; RDM: 1892759/R

#### 7 - MATERIALS REQUIRED BUT NOT PROVIDED

Autoclave and water-bath, sterile loops and swabs, incubator and laboratory equipment as required, Petri dishes, tubes, Erlenmeyer flasks,  $CO_2$  generators and jars or  $CO_2$  incubator with humidifier, ancillary culture media and reagents for the identification of the colonies; defibrinated horse blood, defibrinated sheep blood, bovine haemoglobin (REF 4122712).

#### 8 - SPECIMENS

**Chocolate agar enriched:** plates can be directly inoculated with many clinical specimens collected from various normally sterile and nonsterile human sites. Refer to the quoted literature for specimens types, related to specific infections.<sup>11-13</sup> Chocolate agar enriched is not suitable for direct inoculation of blood samples.

**Thayer Martin (TM) and Modified Thayer Martin (MTM) Media:** plates can be directly inoculated with specimens from non-sterile human sites contaminated by mixed flora of bacteria and/or fungi (e.g. urogenital tract, upper respiratory tract, pus and exudates).<sup>11,13-14</sup> This medium is not useful for the isolation of *Neisseria* spp. from supposedly sterile sites.<sup>10</sup>

#### 9 - TEST PROCEDURE

Allow plates to come to room temperature. The agar surface should be smooth and moist, but without excessive water. Process the specimen as soon as possible after it is received in the laboratory to avoid loss of gonococci viability and overgrowth of contaminants.

Roll the swab over one quadrant of the surface then streak the specimen over the other quadrants of the plate to obtain well isolated colonies, ensuring that sections 1 and 4 do not overlap.

Alternatively, since swabs for gonococcal culture may contain only small numbers of organisms, roll swab directly on the medium in a large "Z" pattern to sufficiently transfer the specimen; cross-streak the "Z" pattern with a sterile loop.

**Chocolate agar enriched**: incubate at 35-37°C in aerobic conditions with 5 -10% CO<sub>2</sub>, and record the results after 18-24 and 48 hours.

The user is responsible for choosing the appropriate incubation time, temperature and atmosphere depending on the processed specimen, the requirements of organisms to be recovered and the local applicable protocols. Consult the procedures outlined in the references for further information.<sup>12,15</sup>

**Thayer Martin and Modified Thayer Martin media**: incubate at 35-36.5°C in a moist atmosphere supplemented with 3-7% CO<sub>2</sub>; cultures should be examined daily for growth and held for a maximum of 72 hours.





# **10 - READING AND INTERPRETATION**

After incubation, observe the bacterial growth and record the specific morphological, chromatic characteristics of the colonies. **Chocolate agar enriched** 

Snocolate agar enriched

Colonies of *Haemophilus influenzae* have a diameter of about 1-2 mm, are colourless, transparent, moist and tend to be translucent, with a characteristic "mousy" odour.

Colonies of *N.gonorhoeae* are of variable diameter (0,5 - 2 mm), moderately convex, raised, finely granular, glistening, with entire or lobate margins.

For other fastidious microorganisms, refer to appropriate references and procedures for results reading and interpretation.<sup>12,15</sup>

# Thayer Martin and Modified Thayer Martin media

*N.gonorrhoeae* colonies are variable in size, usually small (0,5-2 mm), moderately convex, raised, granular, glistening, moist, with entire to lobate margins, usually greyish-white to translucent; almost all strains become mucoid after 48 hours.

A Gram staining must be performed on suspected *Neisseria* colonies to confirm the presence of uniform Gram negative diplococci. Performance of oxidase test is mandatory for colonies suspected to belong to *Neisseria* that shall be positive for *N.gonorrhoeae*.

# 11 - USER QUALITY CONTROL

All manufactured lots of the products are released for sale after the Quality Control has been performed to check the compliance with the specifications. However, it is responsibility of the end-user to perform Quality Control testing in accordance with the local applicable regulations, in compliance with accreditation requirements and the experience of the Laboratory. Here below are listed some test strains useful for the quality control.

TEST STRAINS			INCUBATION (T°/ t / ATM)	EXPECTED RESULTS
Chocolate aga	ar enricl	ned	, , ,	
H.influenzae	ATCC	10221	35-37°C / 18-24H / A or CO <sub>2</sub>	good growth
N.gonorrhoaes	ATCC	43069	35-37°C / 18-24H / CO <sub>2</sub>	good growth
Thayer Martin	and Mo	odified Thayer Martin M	ledia	
N.gonorrhoeae	ATCC	43069	35-37°C / 24-48H / CO <sub>2</sub>	good growth
P.mirabilis	ATCC	43071	35-37°C / 24-48H / CO <sub>2</sub>	inhibited
E.coli	ATCC	25922	35-37°C / 24-48H / CO <sub>2</sub>	inhibited
N.sicca	ATCC	9913	35-37°C / 24-48H / CO <sub>2</sub>	growth partially inhibited
S.epidermidis	ATCC	12228	35-37°C / 24-48H / CO <sub>2</sub>	inhibited
C.albicans	ATCC	60193	35-37°C / 24-48H / CO <sub>2</sub>	growth partially inhibited

ATCC is a trademark of American Type Culture Collection

### **12-PERFORMANCES CHARACTERISTICS**

Prior to release for sale a representative sample of all lots of dehydrated GC Medium Base supplemented with VCNT, REF 4240008 and Biovitex REF 4240009 and chocolatized sheep blood are tested for productivity and selectivity by comparing the results with a previously approved Reference Batch. Productivity is tested by semi-quantitative ecometric technique with 2 gonococcal strains: *N.gonorrhoeae* ATCC 43069, *N.gonorrhoeae* ATCC 19424. After incubation at 35-37°C for 24-48 hours, with 3-7% of CO<sub>2</sub> the amount of growth is evaluated and recorded. All strains show a good growth with typical morphology.

The selectivity is evaluated with modified Miles-Misra surface drop method by inoculating the plates with decimal dilutions in saline from  $10^{-1}$  to  $10^{-4}$  of a 0.5 McFarland suspension of the non-target organisms *N.sicca* ATCC 9913, *S.epidermidis* ATCC 12228, *E.coli* ATCC 25922, *P.mirabilis* ATCC 43071, *C.albicans* ATCC 60193. After incubation at 35-37°C for 48 hours, with 3-7% of CO<sub>2</sub>, the growth of non-target strains *S.epidermidis*, *E.coli*, *P.mirabilis* is inhibited at the dilution  $10^{-1}$  and the growth of *N.sicca* and *C.albicans* is partially inhibited.

### **13 - LIMITATIONS OF THE METHOD**

# GC Medium Base used for the preparation of chocolate agar enriched

- The growth on chocolate agar enriched depends on the metabolic requirements of each microorganism; it is possible that some strains are unable to grow on the medium.
- Depending on the specimens analyzed and the microorganisms being tested for, it is recommended to use also additional selective media such as Thayer Martin for the isolation of gonococcus and Haemophilus selective agar for the isolation of *H.influenzae*.
- For the growth of *N.gonorrhoeae* it is necessary that the surface of the plates is moist; if it appears dry, humidify with a few drops of sterile distilled water. Place damp gauze or paper towels in the CO<sub>2</sub> container before incubation or use an incubator with humidifier.<sup>10</sup>
- The gonococci are one of the most fragile Gram-negative bacteria. It is recommended that any suspected *Neisseria* containing specimen should be inoculated onto primary isolation medium immediately on collection to avoid any loss in viability and/or overgrowth of contaminants; if this is not possible *N.gonorrhoeae* swabs are better held at 4-6° C for not more than 3 hours.<sup>10</sup>
- If *N.gonorrhoeae* is suspected the incubator temperature should be set at 35-36,5°C with 5% CO<sub>2</sub>, because many strains of *N. gonorrhoeae* will not grow well at 37°C and grow poorly with 10% CO<sub>2</sub>.<sup>10,17</sup>
- The number and type of fastidious species present in the specimens as infectious agents is very high. Therefore, before the chocolate agar enriched is routinely used for rarely isolated or recently described microorganisms, its suitability must be verified by the user.
- The presence of colonies on chocolate agar enriched is not an indication, by itself, of the presence of pathogenic microorganisms: user must differentiate potential pathogens requiring biochemical, immunological, molecular, or mass spectrometry testing for identification and antimicrobial testing from contaminants that represent member of normal microbiota.

### GC Medium Base used for the preparation of Thayer Martin and Modified Thayer Martin media

- Vancomycin sensitive strains of some auxotypes of *N.gonorrhoeae* which fail to grow on MTM, have been reported from 3% to 10% of the total isolates.<sup>18,19</sup> Some gonococci are susceptible to trimethoprim too.<sup>20</sup>
- It is recommended that both a selective and a non selective medium be used when isolating pathogenic *Neisseria* in order to avoid the loss of vancomycin and/or trimethoprim sensitive strains.<sup>10</sup>
- TM and MTM are not useful for the isolation of *Neisseria* spp. from supposedly sterile sites as cerebrospinal fluid, conjunctival swab, skin biopsy, joint fluid for which non-selective media are recommended.<sup>10</sup>
- For the growth of *N.gonorrhoeae* it is necessary that the surface of the plates is moist; if it appears dry, humidify with a few drops of sterile distilled water. Place damp gauze or paper towels in the CO<sub>2</sub> container before incubation or use an incubator with humidifier.<sup>10</sup>
- On TM and MTM N.gonorrhoeae grows with smaller and more granular colonies than with non selective chocolate agar.





- · Some saprophytic non-target microorganisms, resistant to antimicrobials present in the media may grow. N.lactamica may grow on TM and MTM with colonies smaller and less moist than gonococci, occasionally with a yellowish tint.<sup>10</sup>
- The gonococci are one of the most fragile Gram-negative bacteria. It is recommended that any suspected Neisseria containing specimen should be inoculated onto primary isolation medium immediately on collection to avoid any loss in viability and/or overgrowth of contaminants; if this is not possible N.gonorrhoeae swabs are better held at 4-6° C for not more than 3 hours.<sup>10</sup>
- The incubator temperature should be set at 35-36.5°C<sup>17</sup> because many strains of N.gonorrhoeae will not grow well at 37°C. <sup>10,17</sup>
- Examine plates after 24 hours incubation. At 48 hours the Gram morphology may exhibit atypical forms.
- Many standard protocols<sup>10,13,14,16</sup> describe the use of Thayer Martin and Modified Thayer Martin media for the detection of meningococcal carriage in oropharyngeal and nasopharyngeal swabs. This application is out of Biolife GC Medium Base intended use. The end user should validate this application before routinely using those selective media for N.meningitidis detection in clinical specimens

#### All media prepared with GC Medium Base

- Use dacron or calcium alginate swabs for specimen collection, avoid cotton swabs since they contain fatty acids which are inhibitory for N.gonorrhoeae.10
- Incorrect specimen collection, incubation temperature, CO2 level, humidity and pH can adversely affect growth and viability of the microorganisms.
- · Inactivation or deterioration of antibiotics into selective media can allow the growth of contaminants.
- It is recommended to measure the pH of complete media. GC Medium Base has sufficient buffering capability however sometimes it could be necessary to adjust the final pH.
- Even if the microbial colonies on the plates are differentiated on the basis of their morphological and chromatic characteristics, it is recommended that biochemical, immunological, molecular, or mass spectrometry testing be performed on isolates, from pure culture, for complete identification. If relevant, perform antimicrobial susceptibility testing.
- . The dehydrated culture medium and the supplements are intended as an aid in the diagnosis of infectious diseases; the interpretation of the results must be made considering the patient's clinical history, the origin of the sample and the results of other diagnostic tests.

#### **14 - PRECAUTIONS AND WARNINGS**

- . The medium base and the supplements are qualitative in vitro diagnostics, for professional use only; they are to be used by adequately trained and qualified laboratory personnel, observing approved biohazard precautions and aseptic techniques.
- The medium base and the supplements shall be used in association according to the described directions.
- Dehydrated media and antibiotics containing supplements must be handled with suitable protection. Before use, consult the Safety Data Sheets
- This culture medium contains raw materials of animal origin. The ante and post mortem controls of the animals and those during the production and distribution cycle of the raw materials, cannot completely guarantee that the product doesn't contain any transmissible pathogen. Therefore, it is recommended that the culture medium be treated as potentially infectious, and handled observing the usual specific precautions: do not ingest, inhale, or allow to come into contact with skin, eyes, mucous membranes. Download the TSE Statement from the website www.biolifeitaliana.it, describing the measures implemented by Biolife Italiana for the risk reduction linked to infectious animal diseases.
- Apply Good Manufacturing Practice in the preparation process of plated or tubed or bottled media.
- All laboratory specimens should be considered infectious.
- The laboratory area must be controlled to avoid contaminants such as medium powder and supplements or microbial agents.
- · Sterilize all biohazard waste before disposal. Dispose the unused medium and supplements and the sterilized plates inoculated with samples or microbial strains in accordance with current local legislation.
- . Do not use the culture medium and the supplements as active ingredients for pharmaceutical preparations or as production materials intended for human and animal consumption.
- The Certificates of Analysis and the Safety Data Sheets of the products are available on the website www.biolifeitaliana.it.
- Notify Biolife Italiana SrI (complaint@biolifeitaliana.it) and the relevant Authorities of any serious incident occurring in connection with the use of the in vitro diagnostic.
- The information provided in this document has been defined to the best of our knowledge and ability and represents a guideline for the proper use of the product but without obligation or liability. In all cases existing local laws, regulations and standard procedures must be observed for the examination of samples collected from human and animal organic districts, for environmental samples and for products intended for human or animal consumption. Our information does not relieve our customers from their responsibility for checking the suitability of our product for the intended purpose.

### **15 - STORAGE CONDITIONS AND SHELF LIFE**

### **Dehydrated medium**

Upon receipt, store at +10°C /+30°C away from direct light in a dry place. If properly stored, it may be used up to the expiration date. Do not use beyond this date. Avoid opening the bottle in humid places. After use, the container must be tightly closed. Discard the product if the container and/or the cap are damaged, or if the container is not well closed, or in case of evident deterioration of the powder (colour changes, hardening, large lumps).

#### Selective and enrichment supplements

Upon receipt, store the products in the original package at +2°C/ +8°C away from direct light. If properly stored, the product may be used up to the expiry date printed on the label; do not use beyond this date. Once the bottle has been opened and the lyophilised product has been reconstituted, the resulting solution should be used immediately. Before use, examine the lyophilized and reconstituted product and discard if there are obvious signs of deterioration (e.g., contamination, atypical colour or other abnormal characteristics).

The user is responsible for the manufacturing and quality control processes of prepared media and the validation of their shelf life. according to the type (plates/tubes/bottles), the added supplements and the storage method applied (temperature and packaging).

#### **16 - REFERENCES**

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### 4240009 / 42185011

BIOVITEX

SDS rev 6 Regulation (EU) 2020/878

### Contains:

L-CYSTEINE HCL

#### Classification

Eye irritation, category 2	H319
Skin irritation, category 2	H315
Specific target organ toxicity - single exposure,	H335
category 3	

- Causes serious eye irritation.
- Causes skin irritation.
- May cause respiratory irritation.

#### Labelling

Hazard pictograms:



Signal words:	Danger
Hazard statemen	ts:
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
Precautionary sta	atements:
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P280	Wear protective gloves / eye protection / face protection.
P312	Call a POISON CENTRE / doctor / if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P264	Wash thoroughly after handling.

### VCN ANTIMICROBIC SUPPLEMENT REF 4240007

SDS rev 6

Regulation (EU) 2020/878

### Classification

The product is classified as hazardous. The product thus requires a safety data sheet that complies with the provisions of (EU) Regulation 2020/878. Hazard classification and indication:

Skin sensitization, category 1 H31	Acute toxicity, category 4	H302
	Skin sensitization, category 1	H317

Harmful if swallowed. May cause an allergic skin reaction.

# Labelling

Hazard pictograms:







Warning Signal words: Hazard statements: Harmful if swallowed. H302 H317 May cause an allergic skin reaction. Precautionary statements: P280 Wear protective gloves. P261 Avoid breathing dust / fume / gas / mist / vapours / spray. P333+P313 If skin irritation or rash occurs: Get medical advice / attention. P264 Wash . . . thoroughly after handling. P362+P364 Take off contaminated clothing and wash it before reuse. Contains: VANCOMYCIN HCL, COLISTIN

# VCNT ANTIMICROBIC SUPPLEMENT REF 4240008

SDS rev 6 Regulation (EU) 2020/878

# Classification

The product is classified as hazardous. The product thus requires a safety data sheet that complies with the provisions of (EU) Regulation 2020/878.

Acute toxicity, category 4 H302 Harmful if swallowed. Skin sensitization, category 1 H317 May cause an allergic skin reaction.

# Labelling

Hazard pictograms:



Signal words:	Warning
Hazard statements	8:
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
Precautionary state	ements:
P280	Wear protective gloves.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P264	Wash thoroughly after handling.
P362+P364	Take off contaminated clothing and wash it before reuse.

Contains: VANCOMYCIN HCL-COLISTIN

#### TABLE OF APPLICABLE SYMBOLS

REF or REF Catalogue number	LOT Batch code	IVD In vitro Diagnostic Medical Device	Manufacturer	This side up	Store in a dry place
Temperature limitation	Content sufficient for <n> tests</n>	Consult Instructions for Use	Use by	Keep away from direct light	Fragile, handle with care

#### **REVISION HISTORY**

Version	Description of changes	Date
Revision 1	Updated layout and content	2020/05
Revision 2	Modification of "principle of the method and explanation of the procedure", "directions for media preparation", "precautions and warnings", "storage conditions and shelf life", inclusion of hazard and precautionary statements.	2022/04

