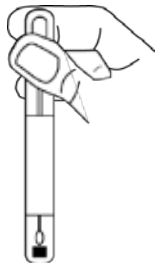
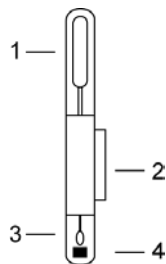




# *Quality Control Microorganisms*

## **PRODUCT CATALOG**



# ***Quality Control Microorganisms Product Catalog***

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800-638-2625  
[www.healthlinkinc.net](http://www.healthlinkinc.net)

# KWIK SWAB<sup>®</sup>

**Get both quality and control...**

**Kwik Swab<sup>®</sup> for your QC needs!**

## Key Benefits

1. Performance - Large (200ul) sample allows for improved recovery rate of organisms.
2. Convenient & Easy - Entire hydration process is performed within KwikSwab<sup>®</sup>.
3. Cost Effective - All materials included - No sterile tubes, saline, water, broth or swabs required.
4. Safe - Device is completely self-contained in a laminated pouch.
5. Fast - No pre-enrichment or pre-incubation necessary.
6. Unique labeling - 3 part label can be used in competency or quality control testing.
7. Shelf Life - Two years from date of manufacture.

## Availability

The Kwik Swab<sup>®</sup> catalog currently contains over 400 strains of quality control microorganisms. This includes not only individual organisms, but also kits for the most commonly requested organisms, and sets for automated equipment such as Vitek, Microscan, and others.

## Design Features

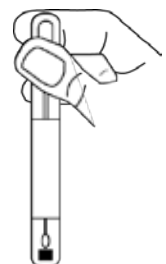
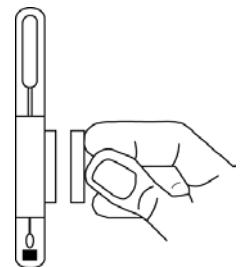
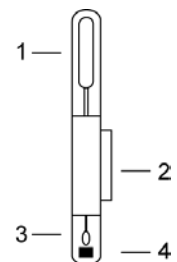
The **Kwik Swab<sup>®</sup>** device offers several important design features that provide the user with a convenient, safe and easy way to perform quality control.

1. Contained within the cap is an ampule containing 0.7ml of hydrating fluid.
2. The center portion of the label with the notation 'Pull Tab'.
3. The sterile swab is used for two purposes explained in the procedure below.
4. The gray-black pellet in the base of the unit contains 200ul of a lyophilized microorganism.

**Note: In order to revive the lyophilized microorganism from its dormant state, the pellet must be hydrated and mixed with the hydrating fluid in the cap. This task is easily accomplished by following the procedure outlined below.**

## Hydration Procedure

- a. Remove the 'Pull Tab center portion of the label which contains the microorganism's complete identification. The label can be attached to quality control records or attached to the petri dish containing the non-selective primary agar that will be inoculated.
- b. The hydrating fluid in the cap is released by breaking or crushing the ampule. Grasp the ampule portion of the device between your thumb and index finger. Apply pressure until you crush the ampule. Release the pressure and briefly allow the hydrating fluid to settle to base of the reservoir portion of the cap.



# KWIK SWAB®

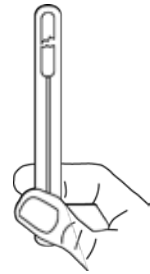
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c. Grasp the cap portion of the device at the upper level of the hydrating fluid between your thumb and index finger. Using downward pressure, pinch and squeeze the fluid into, and down, the inside bore of the shaft of the swab. Continue this action.

**Note: Do not be concerned if some fluid escapes and runs down the outside of the shaft. The unit is still closed and no damage is done.**

d. The pellet of the lyophilized microorganism must immediately be hydrated and thoroughly mixed.

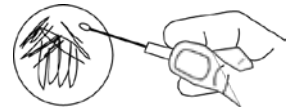
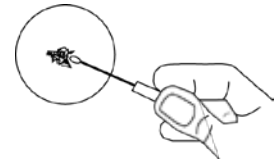
1. Grasp the base of the device around the pellet and the hydrating fluid.
2. Using a pinching and squeezing motion, crush the pellet and thoroughly mix the lyophilized microorganism with the hydrating fluid
3. Mixing is complete when a slurry of particles is present.
4. Immediately proceed to the inoculation step below.



## Inoculation Procedure

a. Immediately following hydration and thorough mixing of the lyophilized microorganism, inoculation is performed as follows:

1. Saturate the swab with the hydrated microorganism suspension.
2. Remove the device cap with swab attached.
3. Transfer the hydrated microorganism suspension to an appropriate non-selective agar plate media.
4. Rotate the swab and inoculate a circular area approximately one inch in diameter.
5. With the same swab or a sterile loop, repeatedly (about 10 to 20 times) streak through the inoculated area, then continue to streak the remainder of the surface area.



**Incubation** - Immediately incubate at temperature and conditions to support the growth of the microorganism.

## ORDERING INFORMATION:

When ordering *Kwik Swab*® QC organisms, please be sure to include the HealthLink catalog number and name of the organism.



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# Lyophilized Microorganisms

Proficiency • Competency • Quality Control • Education

## KWIK SWAB® Microorganisms

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### INTENDED USE

**Kwik Swab**® microorganisms are lyophilized gelatin pellets containing a single strain of a microorganism. They are intended to be used in proficiency, competency, quality control, and education programs.

### SUMMARY

A reliable source of stock microorganisms for use in the microbiology laboratory is essential. Microorganisms with known and predictable biochemical, physiological, serological, antimicrobial susceptibility characteristics and assay values are used in quality control, education, and proficiency programs.

### PRINCIPLE

**Kwik Swab**® microorganisms incorporate a lyophilization method reported by Yamai, et. al., which uses a suspending medium of gelatin, skim milk, ascorbic acid, dextrose, and charcoal. The gelatin serves as a carrier for the microorganism. Skim milk, ascorbic acid, and dextrose protect the microorganism by preserving the integrity of the cell wall during freeze-drying and storage. The charcoal is included to neutralize any toxic substances formed during the lyophilization process.

### PRODUCT AVAILABILITY

Each **Kwik Swab**® unit contains a lyophilized pellet of a single microorganism strain, a reservoir of hydrating fluid and a swab. Each device is sealed when a laminated pouch which contains a desiccator to prevent an adverse accumulation of moisture.

**Kwik Swab**® Microorganism sets are combinations of microorganisms which are used together for common quality control (QC) applications. QC examples might include:

- a) primary growth and isolation media;
- b) identification systems;
- c) antibiotic susceptibility testing;
- d) stains;
- e) reagents;
- f) differential disks.

### PRECAUTIONS AND LIMITATIONS

These products are for in-vitro diagnostic use by trained, qualified personnel. Precautions must be taken against microbial hazards. Sterilize specimens, containers, and media before disposal.

For optimum results, the **Kwik Swab**® microorganisms must be stored, processed and grown as outlined.

- The **Kwik Swab**® microorganisms should not be used if;
- a) the original seal has been broken;
  - b) there is evidence of excessive exposure to heat or moisture;
  - c) the expiration date on the label has passed;
  - d) performance specifications are not achieved.

### STORAGE

Store the **Kwik Swab**® microorganisms at 2-8°C in the dark, in the original sealed desiccator containing pouch. Improper storage or handling, which leads to an abnormal accumulation of moisture in the pellet or excessive heat, may render the lyophilized microorganism nonviable.

### IMPORTANT CONSIDERATIONS

Lyophilized microorganisms are no different than natural occurring strains regarding their requirements for nutrients, specific supplements, incubation temperatures, or environmental demands.

Prior to processing a lyophilized microorganism, refer to the '**SELECTION GROWTH REQUIREMENTS**' section of the primary growth media and incubation conditions which optimize growth and recovery.

# Lyophilized Microorganisms

Proficiency • Competency • Quality Control • Education

## KWIK SWAB® Microorganisms

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### PROCEDURE FOR USE

#### Hydrating KWIK SWAB® microorganisms

1. Remove the **Kwik Swab**® unit from 2-8°C storage and allow the unopened pouch to equilibrate to room temperature.
2. Open the pouch and remove the **Kwik Swab**® unit.
3. Tear off the pull tab portion of the label from the **Kwik Swab**® unit. This label can be filled in with appropriate information and attached to the primary plated medium for identification.
4. Take note of the position of the gelatin pellet in the bottom part of the device and the reservoir of hydrating fluid in the top (cap) part of the device.

DO NOT DISASSEMBLE THE DEVICE DURING HYDRATION

5. Release the hydrating fluid by pinching and crushing the ampule in the cap of the device. Squeeze the hydrating fluid THROUGH the shaft of the swab and INTO the bottom portion of the unit containing the gelatin pellet.
6. Using a pinching action on the bottom portion of the unit, crush and mix the pellet in the fluid until the pellet particles are uniform in size and the solution is homogeneous in appearance.

DO NOT INCUBATE.

#### Inoculation of Hydrated Material

1. IMMEDIATELY, saturate the swab with the hydrated material and transfer the material to an appropriate, non-selective agar medium. With pressure, rotate the swab, and inoculate a circular area (ie., one inch or 25 mm in diameter) of the agar medium. Using the same swab or a sterile loop, repeatedly, (about 10 to 20 times) streak through the inoculated area and then continue to streak the remainder of the agar surface.
2. Discard the remaining hydrated material in accordance with the laboratory protocol for disposal of biohazardous materials.

#### Incubation of Inoculated Media

1. IMMEDIATELY incubate the inoculated media at temperature and environmental conditions appropriate to the microorganism.
2. Following incubation, select representative well-isolated colonies for indicated transfers.

### TECHNICAL NOTES

1. The 0.5 ml volume of hydrated material accommodates the inoculation of multiple, non-selective agar media. The inoculated plates can then be distributed to point-of-care laboratories.
2. Because of the similarity of the **Kwik Swab**® device to various collection and transportation devices, never remove the "ETIOLOGICAL AGENTS" label from the device.

### REFERENCES

1. Clinical Microbiology Procedure Handbook. Vol. 1 and 2. 1st Ed. 1992. ASM. Washington D.C.
2. Cumitech 3, 1976. ASM, Washington, D.C.
3. Manual of Clinical Microbiology, 4th Ed. 1985 ASM, Washington, D.C.
4. Journal of Clinical Microbiology. 1981. 14:61-66.
5. Manual of Quality Control Procedures for Microbiology laboratories, 3rd Ed., 1981. CDC, Atlanta, GA.
6. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically. NCCLS Document M7-A.
7. Performance Standards for Antimicrobial Disk Susceptibility Tests. NCCLS Document M2-A4.
8. Quality Control for Commercially Prepared Microbiological Culture Media. NCCLS Document m22-A.
9. Reference Agar Dilution Procedure for Antimicrobial Susceptibility Testing of Anaerobic Bacteria. NCCIS Document M11-A.

# Lyophilized Microorganisms

Proficiency • Competency • Quality Control • Education

## KWIK SWAB® Microorganisms

### SELECTION OF GROWTH REQUIREMENTS

1. In the absence of process control documentation, a fluid medium should not be used for primary growth. However, if satisfactory results can be documented, a fluid medium may be used to grow a working stock culture.

2. The following lists growth requirement selections.

#### Method 1

Nutrient Agar 35°C in normal environment for 24 - 48 hours.

#### Method 2

Nonselective Sheep Blood Agar - 35°C in normal environment for 24 - 48 hours.

#### Method 3

Chocolate Agar with Hemoglobin / NAD - 35°C in 5% - 10% CO<sub>2</sub> - 24 - 48 hours.

#### Method 4

Prereduced, Nonselective Blood Agar 35°C in anaerobic Environment - 48 - 72 hours.

#### Method 5

Saboraud Dextrose Agar - 22° to 25° C in normal environment for 5 to 7 days.

#### Method 6

Chocolate Agar w/ Hemoglobin & NAD - 35°C in microaerophilic environment - 48 - 72 hours.

#### Method 7

Lowenstein Jensen Agar - 35°C in normal environment for 3 to 5 days

**Notes:** Nonselective Sheep Blood Agar can be substituted in Method 1 and Method 5. Although prolonged incubation may be required and the growth is not as good, simple nutrient agar (ie., Plate Count Agar) can be substituted in Method 2 and Method 5.

3. The following information lists the growth requirements for the strains listed:

<i>Acinetobacter spp.</i>	Method 1
<i>Actinobacillus pleuropneumoniae</i>	Method 3
<i>Actinobacillus suis</i>	Method 1
<i>Actinomyces pyogenes</i>	Method 2
<i>Actinomyces odontolyticus</i>	Method 4
<i>Aeromonas spp.</i>	Method 1
<i>Alcaligenes spp.</i>	Method 1
<i>Alteromonas spp.</i>	Method 1
<i>Apiotrichum</i>	Method 1
<b>Note:</b> Experience dictates that incubation for 7 days may be required.	
<i>Aspergillus spp.</i>	Method 5
<i>Bacillus spp.</i>	Method 1
<i>Bacteroides spp.</i>	Method 4
<i>Blastoschizomyces spp.</i>	Method 5
<i>Bordetella spp.</i>	Method 2
<i>Branhamella spp.</i>	Method 2

*Campylobacter spp.* Method 6

**Note:** Experience dictates that Chocolate agar is the best medium for the initial growth of *Campylobacter jejuni*.

*Candida spp.* Method 5

*Citrobacter spp.* Method 1

*Clostridium spp.* Method 4

*Corynebacterium spp.* Method 2

*Cryptococcus spp.* Method 5

**Note:** Experience dictates that *Cryptococcus laurentii* must be incubated at 22° to 25°C to assure growth.

*Enterobacter spp.* Method 1

*Enterococcus spp.* Method 2

*Erysipelothrix spp.* Method 2

*Escherichia spp.* Method 1

*Eubacterium spp.* Method 4

*Flavobacterium spp.* Method 1

*Fusobacterium spp.* Method 4

*Gardnerella spp.* Method 3

**Note:** Experience dictates that Chocolate agar and incubation in an environment of 5% to 10% CO<sub>2</sub> is required to stimulate growth.

*Haemophilus spp.* Method 3

*Klebsiella spp.* Method 1

*Lactobacillus spp.* Method 2

*Listeria spp.* Method 2

*Micrococcus spp.* Method 2

*Mycobacterium spp.* Method 7

*Neisseria spp.* Method 3

*Oligella spp.* Method 2

*Pasturella spp.* Method 1

*Peptostreptococcus spp.* Method 4

*Prevotella spp.* Method 4

*Porphyromonas spp.* Method 4

*Propionibacterium spp.* Method 4

*Proteus spp.* Method 1

*Providencia spp.* Method 1

*Pseudomonas spp.* Method 1

*Rhodococcus spp.* Method 2

*Saccharomyces spp.* Method 5

*Salmonella spp.* Method 1

*Serratia spp.* Method 1

*Sphingobacterium spp.* Method 1

*Staphylococcus spp.* Method 1

*Streptococcus spp.* Method 1

*Trichophyton spp.* Method 5

*Vibrio spp.* Method 2

*Yarrowia spp.* Method 5

*Yersinia spp.* Method 1

*Xanthomonas spp.* Method 1

*Zygosacchomyces* Method 5

# MATERIAL SAFETY DATA SHEET

## QUALITY CONTROL MICROORGANISMS



### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**Product:** Quality Control microorganism preparations  
**Supplier:** HealthLink, 3611 St. Johns Bluff Rd. S. Suite 1. Jacksonville, FL 32224  
**Emergency contact:** Infotrac, 800-535-5053

### SECTION 2 – COMPOSITION

Each Quality Control container or vial contains a pure microorganism population. The microorganisms are classified as either Risk Group 1 or Risk Group 2 by the World Health Organization (WHO). These microorganisms may cause human infection, may pose a hazard to laboratory personnel, but are unlikely to spread in the community. Exposure to these microorganisms in the laboratory rarely causes infection. Effective prevention and treatment is readily available.

### SECTION 3 - HAZARDS INFORMATION

**Physio-chemical:** Not applicable  
**Health:** Risk of infection  
**Environmental:** Not applicable

### SECTION 4 - FIRST AID MEASURES

**Eyes:** Avoid contact with eyes. If contact occurs, wash with plenty of water and seek medical attention immediately.  
**Skin:** Non-irritant. If skin contact occurs, wash with an appropriate biocidal solution.  
**Inhalation:** Avoid the production of aerosols. If inhalation occurs, move to an area of fresh air and seek medical advice.  
**Ingestion:** Avoid hand to mouth contact. If ingested, seek medical advice.

### SECTION 5 - FIRE FIGHTING MEASURES

Not applicable

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

In case of accidental spillage, contain the spilled material and immediately notify nearby personnel of the incident. Decontaminate the spillage by flooding and soaking the spilled material with a suitable disinfectant. Allow sufficient time for the biocidal activity of the disinfectant. Clean the area and material using disposable paper towels or tissues. Towels and tissues containing microorganisms should be treated as biohazard material.

### SECTION 7 - HANDLING AND STORAGE

The Quality Control microorganism must be stored at 2°- 8°C in the original sealed container. The Quality Control microorganism contains viable microorganisms that may, under certain circumstances, produce disease. Proper techniques must be employed to avoid exposure and contact with microorganism growth. The microbiology laboratory must be equipped, and have the facilities to receive, process, maintain, store and dispose of biohazard material. The microbiology laboratory personnel using these devices must be trained, experienced and demonstrate proficiency in processing, maintaining, storing and disposing of biohazard material.

### SECTION 8 - EXPOSURE CONTROL - PERSONNEL PROTECTION

Good laboratory practices must be observed and followed at all times. The use of a biological safety cabinet, the prevention of aerosols and the use of gloves, moisture impervious aprons, and other protective clothing must be dictated by the standard operational procedures of each individual laboratory.





# MATERIAL SAFETY DATA SHEET

## QUALITY CONTROL MICROORGANISMS

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### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Inert, odorless and dry material.

### SECTION 10 - STABILITY AND REACTIVITY

When stored as directed, the Quality Control microorganism preparations are stable until the the expiration date or the last day of the stated month if an exact day is not given. The length of storage does not affect the risk of infection.

### SECTION 11 - TOXICOLOGY INFORMATION

Not applicable.

### SECTION 12 - ECOLOGICAL INFORMATION

Not applicable.

### SECTION 13 – DISPOSAL

The materials, and subsequent growth of these microorganisms on culture media, are considered to be biohazard material. Agencies and statutes regulate the disposal of all biohazard materials. Each laboratory must be aware of, and comply with, the proper disposal of biohazard materials.

### SECTION 14 - TRANSPORT INFORMATION

Refer to national and international regulations regarding the shipment and transport of biohazard materials. UN Classification: UN3373 Biological Substance, Category B.

### SECTION 15 – REGULATORY INFORMATION

Not Listed.

### SECTION 16 – OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. HealthLink assumes no liabilities for accuracy or completeness of the information contained herein.

**The statements contained herein are offered for informational purposes only and are intended to be followed by persons having related technical skills and at their own discretion and risk. Since conditions and manner of use are outside of our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information.**

# HealthLink Strep Quality Control Kit

## New, Easy to Use Strep QC Kit

- Single Step Rehydration
- Easy To Read
- Cost Effective
- No Glass Ampoule To Crush
- Safe—Device Is Completely Contained In a Laminated Pouch
- One Year Shelf Life (from date of manufacture)



### INSTRUCTIONS FOR USE

1. Open microorganism vial (labeled either “A” (*S. pyogenes*) or “B” (*S. agalactiae*)) and place cap upside-down on counter.
2. Pour vial labeled “TYL Broth” into vial (labeled either “A” (*S. pyogenes*) or “B” (*S. agalactiae*)) and replace cap (Photo 1).
3. Invert, mix well and incubate at 33-37°C until the concentration of organisms is equivalent to a 0.5% McFarland Standard (approximately 4 hours).
4. Use sterile swab and dip into vial, then streak Strep Selective Agar as required for QC (Photo 2).
5. Place microorganism vial in refrigerator until next use. Warm to room temperature and invert to mix well before each use.
6. Working stock tubes can be re-used for approximately 6-8 weeks after initial use.



Photo 1  
“Pour TYL Broth”



Photo 2  
“Streak Plate”

# HealthLink Strep Quality Control Kit

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Product No.: 3137    Rev. No.: New

## Section I: Intended Use

The HealthLink Strep QC kit contains dehydrated Streptococcus strains A and B which are intended to be used for Quality Control

## Section II: Summary

A reliable source of stock microorganisms is essential. Microorganisms with known and predictable biochemical, physiological, serological and antimicrobial susceptibility characteristics and assay values are used in quality control. The Streptococcus strains in this kit meet all of these requirements.

## Section III: Principle

HealthLink microorganisms are dehydrated using principles and procedures developed by HealthLink, which uses a suspending medium designed to preserve the organism in a crystalline matrix during dehydration. The microorganisms are equivalent to ATCC strains used for quality control.

## Section IV: Product Use

Each HealthLink Strep QC Kit contains three sets of vials. Each set is in a sealed laminated pouch along with an absorbent pad. Each set includes one re-hydration medium used to both re-hydrate the vials and to maintain the subsequent stock culture for up to eight weeks and a vial with either Streptococcus pyogenes (Group A) or Streptococcus agalactiae (Group B) in dehydrated form. The absorbent pad is in the pouch to prevent the adverse accumulation of moisture. Instructions for using the product are follows:

1. Open microorganism vial and place cap upside-down on counter.
2. Pour vial labeled "TYL Broth" into microorganism vial and replace cap.
3. Invert, mix well and incubate at 33-37°C until the concentration of organisms is equivalent to a 0.5% McFarland Standard (approximately 4 hours).
4. Use sterile swab and dip into vial, then streak Strep Selective Agar as required for QC.
5. Place microorganism vial in refrigerator until next use. Warm to room temperature and invert to mix well before each use.
6. Working stock tubes can be re-used for approximately 6-8 weeks after initial use.

## Section V: Expected Results

Streptococcus pyogenes (Group A):	Growth, Beta Hemolysis, Inhibition zone around the Bacitracin Differentiation Disc
Streptococcus agalactiae (Group B):	Growth, Alpha Hemolysis, No inhibition zone around the Bacitracin Differentiation Disc

## Section VI: Precautions and Limitations

This product is for in-vitro diagnostic use by trained, qualified personnel. Precautions must be taken against microbial hazards. Dispose of all specimens, containers and media by either sterilization or in appropriate biohazard containers. For optimum results the HealthLink Strep QC kit must be stored, processed and used as outlined in Section IV. The HealthLink Strep QC kit should not be used if any of the following conditions apply:

- a) the pouch has been opened prior to receipt.
- b) There is visible moisture in the pouch.
- c) The expiration date on the label has passed.
- d) The performance specifications are not met.

# HealthLink Strep Quality Control Kit

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Product No.: 3137    Rev. No.: New

## Section VII: Storage

Store the HealthLink Strep QC Kit at 2-8°C in the dark in the sealed pouch.

## References:

1. Clinical Microbiology Procedure Handbook Vol. 1 and 2. 1st Ed. 1992 ASM, Washington D.C.
2. Quality Control for Commercially Prepared Microbiological Culture Media NCCLS Document m22-A.
3. Manual of Quality Control Procedures for Microbiology Laboratories, 3rd. Ed., 1981 CDC Atlanta GA.
4. Journal of Clinical Microbiology. 1981. 14:61-66

## TECHNICAL SERVICE

HealthLink provides a toll free technical service line (800-638-2625) to assist with product usage.  
To have technical questions answered, please call between the hours of 8:30 am to 5:00 pm EST.



3611 St. Johns Bluff Rd. S. Suite 1  
Jacksonville, FL 32224  
800-638-2625  
[www.healthlinkinc.net](http://www.healthlinkinc.net)

# HealthLink Quality Control Microorganism Vials

## New, Easy to Use Format

- Single Step Rehydration
- Easy To Read
- Cost Effective
- No Glass Ampoule To Crush
- Safe—Device Is Completely Contained In a Laminated Pouch
- One Year Shelf Life (from date of manufacture)



### INSTRUCTIONS FOR USE

1. Open microorganism vial and place cap upside-down on counter.
2. Pour vial labeled “TYL Broth” into organism vial (Photo 1)
3. Mix well using sterile swab to mix until solution is turbid.
4. Use the swab to streak on appropriate agar as required for QC (Photo 2)



Photo 1  
“Pour TYL Broth”



Photo 2  
“Streak Plate”

# QUALITY CONTROL ORGANISMS

DESCRIPTION	ITEM #	CULTURE COLLECTION #	DESCRIPTION	ITEM #	CULTURE COLLECTION #
<b>A</b>			<b>C</b>		
A. BAUMANNII	163593	BAA-747 C	C. ALBICANS	163205	26790 D
A. BAUMANNII	163140	19606 B	C. ALBICANS	163204	24433 D
A. BAUMANNII	3140	NCIMB 12457A	C. ALBIDUS	163234	66030 D
A. BRASILIENSIS	163158	16404 E	C. ALBIDUS	163233	34140 D
A. BRASILIENSIS	3158	NCPF 2275 D	C. BIFERMENTANS	163220	638 D
A. BRASILIENSIS	163797	Plus 16404 E	C. BRAAKII	163218	43162 B
A. CAVIAE	163152	15468 C	C. DIFFICILE	163221	9689 D
A. FAECALIS	163157	35655 C	C. DIFFICILE	163756	43593 D
A. FAECALIS	163156	8750 C	C. DIFFICILE	163222	43593 D
A. HAEMOLYTICUS	163141	19002 C	C. FREUNDII	163219	8090 B
A. HYDROPHILA	163153	35654 C	C. GLABRATA	163209	66032 D
A. HYDROPHILIA	163154	49140 C	C. GLABRATA	163790	15126 D
A. LWOFFII	163143	17925 C	C. GLABRATA	163208	2001 D
A. LWOFFII	163142	15309 C	C. GUILLIERMONDII	163791	6260 D
A. ODONTOLYTICUS	163149	17929 D	C. HISTOLYTICUM	163223	19401 D
A. PLEUROPNEU	163147	27088 D	C. HUMICOLA	163235	9949 D
A. PYOGENES	163150	19411 D	C. JEJUNI	163202	33291 E
A. PYOGENES	163151	49698 D	C. JEJUNI	163201	29428 E
A. SPECIES	163146	49466 C	C. JEJUNI	3202	NCTC 13367 E
A. SPECIES	163145	49139 C	C. KEFYR	163213	66028 D
A. SPECIES	163144	49137 C	C. KEFYR	163212	2512 D
A. SUIS	163148	15557 C	C. KRUSEI	163947	34135 D
A. VERONII	163155	9071 C	C. KRUSEI	163214	14243 D
A. VIRIDANS	163789	700406 C	C. LAURENTII	163236	18803 D
A. VIRIDANS WILLIAMS	163946	11563 C	C. LAURENTII	163238	76483 D
<b>B</b>			C. LAURENTII	163237	66036 D
B. ATROPHAEUS	163169	9372 B	C. LUSITANIAE	163986	66035 D
B. BREVIS	163844	8246 B	C. MUYTJENSII	163210	51329 D
B. BRONCHISEPTICA	163190	10580 D	C. NEOFORMANS	163239	32045 D C.
B. BRONCHISEPTICA	163189	4617 D	NEOFORMANS	163240	66031 D
B. CAPITAT	163188	10663 E	C. NEOFORMANS	163241	76484 D
B. CEPACIA	163754	25608 C	C. PARAPSILOSIS	163732	22019 D
B. CEPACIA	163513	25416 C	C. PERFRINGENS	163226	13124 D
B. CEREUS	163159	10876 B	C. PERFRINGENS	3226	NCIMB 8237 D
B. CEREUS	163160	13061 B	C. PERFRINGENS	163225	12919 D
B. DIMINUTA	163984	11568 B	C. PERFRINGENS	163224	12915 D
B. DIMINUTA	163198	19146 C	C. PSEUDODIPTHERITICUM	163734	10701 D
B. FRAGILIS	163177	25285 D	C. PSEUDODIPTHERITICUM	163231	10700 D
B. FRAGILIS	163175	23745 D	C. SORDELLII	163227	9714 D
B. LICHENIFORMIS	163162	12759 B	C. SORDELLII	3227	NCIMB 10717D
B. OVATUS	163178	8483 D	C. SPECIES	163232	49676 D
B. PARAPERTUSSIS	163725	15311 D	C. SPOROGENES	163230	19404 D
B. PERTUSSIS	163191	8467 D	C. SPOROGENES	163229	11437 D
B. SPHAERICUS	163165	4525 B	C. SPOROGENES	163228	3584 D
B. SPIZIZENII	163167	6633 B	C. TROPICALIS	163216	66029 D
B. SPIZIZENII	3167	NCIMB 8054 B	C. TROPICALIS	163215	13803 D
B. THETAOTAMICR UNIFORMIS	163180	29741D B.	C. TROPICALIS	163733	9968 D
UREOLYTICUS	163182	8492 D B.	C. TROPICALIS	163515	750 D
B. VULGATUS	163185	33387 D	C. UNIGUTTULATUS	163242	66033 D
		8482 D	<b>E</b>		
<b>C</b>			E. AEROGENES	163243	13048 B
C. ALBICANS	3161	NCYC 1363 D	E. AEROGENES	3243	NCIMB 10102B
C. ALBICANS	163161	10231 D	E. AEROGENES	163983	51697 D
C. ALBICANS	163203	14053 D	E. AEROGENES	163244	35029 B
C. ALBICANS	163206	60193 D	E. AVIUM	163250	14025 C
C. ALBICANS	163207	66027 D	E. CASSELI FLAVUS	163569	700327 B
C. ALBICANS	163943	Plus 10231 D	E. CLOACAE	163982	700323 C
C. ALBICANS	163731	2091 D	E. CLOACAE	163247	35030 B
			E. CLOACAE	163245	13047 B
			E. CLOACAE	3245	NCTC 10005

# QUALITY CONTROL ORGANISMS

DESCRIPTION	ITEM #	CULTURE COLLECTION #	DESCRIPTION	ITEM #	CULTURE COLLECTION #
<b>A</b>			<b>G</b>		
E. CLOACAE	163249	49141 B	G. VAGINALIS	163288	49145 C
E. CLOACAE	163248	43091 B	G. VAGINALIS	163287	14018 C
E. CLOACAE	163246	23355 B	<b>H</b>		
E. COLI	3164	NCIMB 12210 A	H. APHROPHILUS	163778	19415 D
E. COLI	163164	25922 A	H. HAEMOLYTICUS	163289	33390 D
E. COLI	163281	35218 B	H. INFLUENZAE	163298	49144 C
E. COLI	3281	NCTC 11954 C	H. INFLUENZAE	163299	49247 C
E. COLI	163482	700728 C	H. INFLUENZAE	163300	49766 C
E. COLI	163564	51446 C	H. INFLUENZAE	3299	NCTC 12699
E. COLI	163588	51755 C	H. INFLUENZAE	163294	33930 C
E. COLI	3482	NCTC 12900 C	H. INFLUENZAE	163295	35056 C
E. COLI	163272	8739 C	H. INFLUENZAE	163297	43163 C
E. COLI	163799	Plus 8739 C	H. INFLUENZAE	163296	43065 C
E. COLI	163792	43888 C	H. INFLUENZAE	163291	19418 C
E. COLI	163282	35421 C	H. INFLUENZAE	163738	DERIVATIVE OF NCTC 11931C
E. COLI	163278	29194 C	H. INFLUENZAE(A)	163290	9006 C
E. COLI	163277	15939 C	H. INFLUENZAE(B)	163166	10211 C
E. COLI	163276	13762 C	H. INFLUENZAE(B)	163293	33533 C
E. COLI	163275	11775 C	H. INFLUENZAE(B)	3166	NCTC 13377
E. COLI	163274	11229 C	H. PARAHEAMOLYTI	163301	10014 C
E. COLI	163273	10536 C	H. PARAINFLUENZA	163302	7901 C
E. COLI	163271	4157 C	H. PARAPHROPHILU	163304	49146 D
E. COLI	163737	DERIVATIVE OF NCTC 12900 B	H. PARAPHROPHILU	163303	29241 D
E. DURANS	163252	6056 C	H. PARAPHROPHILUS	163586	49917 D
E. DURANS	163256	49479 C	H. PARASUIS	163305	19417 D
E. DURANS	163255	49135 C	H. SOMNUS	163306	43625 D
E. DURANS	163254	19432 C	<b>K</b>		
E. DURANS	163253	11576 C	K. KRISTINAE	163546	BAA-752 C
E. FAECALIS	163163	29212 B	K. OXYTOCA	163311	49131 B
E. FAECALIS	3163	NCIMB 13280 A	K. OXYTOCA	163581	700324 B
E. FAECALIS	163263	51299 C	K. OXYTOCA	163758	8724 B
E. FAECALIS	3263	NCTC 13379 B	K. OXYTOCA	163309	43165 B
E. FAECALIS	3258	NCTC 775 C	K. OXYTOCA	163308	43086 B
E. FAECALIS	163942	Plus 29212 B	K. OXYTOCA	163307	33496 B
E. FAECALIS	163262	49478 C	K. PNEUMONIAE	163877	700603 B
E. FAECALIS	163261	49452 C	K. PNEUMONIAE	163168	13883 A
E. FAECALIS	163259	49149 C	K. PNEUMONIAE	163318	33495 B
E. FAECALIS	163258	19433 C	K. PNEUMONIAE	163316	13882 B
E. FAECALIS	163257	7080 C	K. PNEUMONIAE	3168	27736 B
E. FAECIUM	163266	35667 C	K. PNEUMONIAE	3877	NCTC 9633 A
E. FAECIUM	163267	49032 C	K. PNEUMONIAE	163927	NCTC 13368
E. FAECIUM	163265	27270 C	K. PNEUMONIAE	163928	BAA-1705 B
E. FAECIUM	163264	6569 C	K. PNEUMONIAE	3316	BAA-1706 B
E. FLOCCOSUM	163736	52062 E	K. PNEUMONIAE	163319	NCIMB 8267 A
E. GALLINARUM	163787	700425 C.E.	K. PNEUMONIAE	163315	35657 B
GALLINARUM	163735	49573 C	K. PNEUMONIAE	163314	10031 B
E. HIRAE	163269	10541 C	K. PNEUMONIAE	163314	4352 B
E. HIRAE	163268	80430 C	K. RHIZOPHILA	163329	533 C
E. LENTUM	163283	43055 D	K. RHIZOPHILA	163330	9341 C
E. MENINGOSEPTICA	163217	13253	<b>L</b>		
E. RAFFINOSUS	163587	49464 C	L. ACIDOPHILUS	163714	314 C
E. RHUSIOPATH	163270	19414 C	L. ADECARBOXYLATA	163760	23216 C
E. TARDA	163527	15947 C	L. FERMENTUM	163320	9338 C
<b>F</b>			L. INNOCUA	163322	33090 D
F. BOZEMANAE	163974	33217 E	L. IVANOVII	163323	19119 D
F. MAGNA	163358	29328 D	L. MONOCYTOGENES	163324	7644 D
F. NECROPHORUM	163285	25286 D	L. MONOCYTOGENES	163594	BAA-751
F. NUCLEATUM	163286	25586 D			
F. ODORATUS	163284	4651 C			

# QUALITY CONTROL ORGANISMS

DESCRIPTION	ITEM #	CULTURE COLLECTION #	DESCRIPTION	ITEM #	CULTURE COLLECTION #
<b>C</b>			N. SICCA	163349	29193 C
L. MONOCYTOGENES	163326	19115 D	N. SICCA	163348	9913 C
L. MONOCYTOGENES	163884	19111 D			
L. MONOCYTOGENES	163740	15313 D	<b>O</b>		
L. MONOCYTOGENES 4A	163325	19114 D	O. UREOLYTICA	163793	43534 C
L. PNEUMOPHILA	163795	33152 E	O. UREOLYTICA	163351	43535 C
L. RHAMNOSUS	163321	9595 C	O. URETHRALIS	163352	17960 C
L. SEELIGERI	163327	35967 D			
L. WELSHIMERI	163328	35897 D	<b>P</b>		
			P. ACNES	163363	11827 D
<b>M</b>			P. AEROGENES	163353	27883 C
M. AVIUM	163978	25291 E	P. AERUGINOSA	3176	NCIMB 12469
M. CANIS	163741	36299 E	P. AERUGINOSA	163176	27853 A
M. CATARRHALIS	163512	49143 C	P. AERUGINOSA	163379	10145 B
M. CATARRHALIS	163192	8176 C	P. AERUGINOSA	163385	35032 C
M. CATARRHALIS	163194	25240 C	P. AERUGINOSA	163378	9027 B
M. CATARRHALIS	163585	23246 C	P. AERUGINOSA	163381	15442 C
M. CATARRHALIS	163193	25238 C	P. AERUGINOSA	163798	Plus 9027 B
M. FORTUITUM	163989	6841 E	P. AERUGINOSA	163386	35422 C
M. GORDONAE	3336	NCTC 10267 E	P. AERUGINOSA	163384	29336 C
M. GORDONAE	163336	14470 E	P. AERUGINOSA	163382	17934 C
M. GYPSEUM	163742	24102 E	P. AERUGINOSA	3745	NCTC 10662 C
M. LUTEUS	163334	49732 C	P. AERUGINOSA	163745	DERIVATIVE OF NCTC 10662C
M. LUTEUS	163945	4698 C	P. ALCALIFACIENS	163767	51902 B
M. LUTEUS	163333	15957 C	P. ALCALIFACIENS	163375	9886 B
M. LUTEUS	163332	10240 C	P. ANAEROBIUS	163357	27337 D
M. LUTEUS	163331	9341a C	P. ASACCHAROLYTICUS	163816	29743 D
M. MICROS	163359	33270 D	P. DISTASONIS	163172	8503 D
M. MORGANII	163764	25830 C	P. DISTASONIS	3172	NCTC 11152
M. OSLOENSIS	163335	10973 C	P. FLUORESCENS	163908	13525 D
M. SMEGMATIS	163743	14468 E	P. FLUORESCENS	163909	49838 D
M. SPECIES	163761	700405 C M.	P. GINGIVALIS	163360	33277 D
TERRAE	163819	15755 E	P. HAEMOLYTICA	163354	33396 C
			P. HAUSERI	163174	13315 B
<b>N</b>			P. LEVII	163361	29147 D
N. BRASILIENSIS	163710	19296 C	P. LOESCHEII	163362	15930 D
N. GONORRHOEAE	163170	43069 C	P. MIRABILIS	163173	7002 B
N. GONORRHOEAE	163337	19424 C	P. MIRABILIS	163364	12453 B
N. GONORRHOEAE	163338	43070 C	P. MIRABILIS	163369	43071 B
N. GONORRHOEAE	163339	49226 C	P. MIRABILIS	163366	29245 B
N. GONORRHOEAE	163340	49981 C	P. MIRABILIS	163368	35659 B
N. GONORRHOEAE	3337	NCTC 8375	P. MIRABILIS	3365	NCIMB 13283 A
N. GONORRHOEAE	163171	31426 C	P. MIRABILIS	163367	29906 B
N. LACTAMICA	163343	49142 C	P. MIRABILIS	163365	25933 B
N. LACTAMICA	163341	23970 C	P. MULTOCIDA	163356	43137 C
N. LACTAMICA	163342	23971 C	P. MULTOCIDA	163355	12945 C
N. MENINGITIDIS	163345	13090 C	P. NOTATUM	163570	9179 D
N. MENINGITIDIS	3345	NCTC 10026	P. POLYMYXA	163727	842 B
N. MENINGITIDIS	163344	13077 C	P. PUTIDA	163389	49128 C
N. MENINGITIDIS	163346	13102 C	P. RETTGERI	163376	9250 B
N. MUCOSA	163591	49233 D	P. SHIGELLOIDES	163765	51903 C
N. MUCOSA	163347	19695 D	P. SHIGELLOIDES	163768	14029 C
N. PERFLAVA	163350	14799 C			



# QUALITY CONTROL ORGANISMS

DESCRIPTION	ITEM #	CULTURE COLLECTION #	DESCRIPTION	ITEM #	CULTURE COLLECTION #
P. STUARTII	163388	49809 B	S. EQUISIMILIS (C)	163497	12388 C
P. STUARTII	163377	33672 B	S. FIMICOLA	163812	14517 E
P. STUTZERI	163516	17588 C	S. FLEXNERI TYPE 1a	163417	9199 C
P. VULGARIS	163373	49132 B	S. FLEXNERI TYPE 2b	163418	12022 C
P. VULGARIS	163370	6380 B	S. GALLOLYTICUS	163480	49147 C
P. VULGARIS	163371	8427 B	S. GALLOLYTICUS	163477	9809 C
P. VULGARIS	163766	6896 B	S. GALLOLYTICUS	163481	49475 C
P. VULGARIS	163372	33420 B	S. KUNZENDORF	163400	12011 C
<b>R</b>			S. LENTUS	163762	700403 C
R. EQUI	163390	6939 D	S. LIQUEFACIENS	163769	27592 C
R. MUCILAGINOSA	163987	66034 D	S. MALTOPHILIA	163814	17666 C
R. PICKETTII	163200	49129 C	S. MALTOPHILIA	163590	49130 B
<b>S</b>			S. MALTOPHILIA	163755	51331 C
S. ABAETETUBA	163394	35640 C	S. MALTOPHILIA	163474	13637 C
S. ABONY	163746	DERIVATIVE OF NCTC 6017 B	S. MARCESCENS	163408	8100 C
S. AGALACTIAE	3475	NCIMB 701348 B	S. MARCESCENS	163409	14756 C
S. AGALACTIAE	163475	13813 B	S. MITIS	163486	6249 C
S. AGALACTIAE	163476	27956 B	S. MULTIVOR	163423	35656 C
S. AGALACTIAE (B)	3184	NCTC 9993 B	S. MUTANS	163487	35668 C
S. AGALACTIAE (B)	163184	12386 C	S. ODORIFERIA	163410	33077 C
S. ANATUM GRP E	163395	9270 C	S. PARASANGUIS	163488	15909 C
S. ARIZONAE	163396	13314 C	S. PARATYPHI (A)	163401	9150 C
S. AUREUS	3179	NCIMB 12702 A	S. PNEUMONIAE	163494	49619 B
S. AUREUS	163179	25923 A	S. PNEUMONIAE	163186	6305 B
S. AUREUS	163431	29213 A	S. PNEUMONIAE	163492	49136 C
S. AUREUS	3431	NCTC 12973 A	S. PNEUMONIAE	163490	6303 B
S. AUREUS	163977	BAA-1026 D	S. PNEUMONIAE	3490	NCIMB 13286 B
S. AUREUS	163973	BAA-977 C	S. PNEUMONIAE	163491	27336 C
S. AUREUS	163971	BAA-976 C	S. PNEUMONIAE	163493	49150 C
S. AUREUS	163435	33591 C	S. POONA	163747	DERIVATIVE OF NCTC 4840 C
S. AUREUS	163944	Plus 6538 C	S. PUTIFACIENS	163411	49138 C
S. AUREUS	163891	33592 B	S. PUTIFACIENS	163895	8071 C
S. AUREUS	163439	51153 C	S. PYOGENES	163496	49399 B
S. AUREUS	163438	49476 C	S. PYOGENES (A)	3187	NCIMB 13285 A
S. AUREUS	163437	49444 C	S. PYOGENES (A)	163187	19615 B
S. AUREUS	163434	29737 C	S. PYOGENES 3	163495	12384 B
S. AUREUS	163428	11632 C	S. SANGUIS	163521	10556 C
S. AUREUS	163427	6538P C	S. SAPROPHYTI	163447	49453 C
S. AUREUS	163424	6538 C	S. SAPROPHYTICUS	163709	49907 C
S. AUREUS	163748	DERIVATIVE OF NCTC 6571B	S. SAPROPHYTICUS	163446	15305 B
S. AUREUS (FOR MRSA TEST)	163517	43300 B	S. SAPROPHYTICUS	3446	NCIMB 8711 A
S. AUREUS, NURSE STRAIN	163436	33862 B	S. SAPROPHYTICUS	163595	BAA-750 B
S. BOVIS	163479	49133 C	S. SCIURI	163712	29061 B
S. BOVIS	163478	33317 C	S. SCIURI SS	163448	29060 C
S. BOYDII (TYPE 1)	163412	9207 C	S. SIMULTANS	163464	27851 C
S. CAPITIS	163440	35661 C	S. SONNEI	163420	25931 C
S. CEREVISIAE	163392	9763 D	S. SONNEI	163419	9290 B
S. CEREVISIAE	163391	2601 D	S. SONNEI	163422	29930 C
S. CHOLERAESUIS	163398	10708 C	S. SPECIES	163467	13518 C
S. CHOLERAESUIS C	163397	7001 C	S. SPECIES F2	163498	12392 C
S. COHNII	163441	35662 C	S. SPECIES G	163499	12394 C
S. ENTERITIDIS D	163399	13076 C	S. SUIS	163500	43765 C
S. EPIDERMIDI	163181	12228 B	S. TALLAHASSEE	163402	12002 C
S. EPIDERMIDI	163444	49134 C	S. THERMOPHILUS	163770	19258 C S.
S. EPIDERMIDI	3181	NCIMB 8853 B	TYPHIMURIUM	163406	14028 C
S. EPIDERMIDI	163443	14990 B	S. TYPHIMURIUM	3406	NCIMB 13284 B
S. EPIDERMIDI	163445	49461 C	S. TYPHIMURIUM	163405	13311 C
S. EQUI	163483	9528 C	S. UBERIS	163788	700407 C
S. EQUISIMILIS	163484	35666 C	S. VELLORE	163407	15611 C
			S. WARNERI	163468	49454 C
			S. XYLOSUS	163473	49148 C

# QUALITY CONTROL ORGANISMS

DESCRIPTION	ITEM #	CULTURE COLLECTION #
S. XYLOSUS	163469	29971 C
S. XYLOSUS	163763	700404 C
S. XYLOSUS	163472	35663 C
S. ZOOEPIDEMICUS	163979	43079 C
S. ZOOEPIDEMICUS	163759	700400 C
<b>T</b>		
T. THERMOSACCHAROLYTICUM	163749	7956 D
T. MENTAGROPHYT	163514	9533 E
T. MUCOIDES	163988	201383 E
T. RUBRUM	163502	28188 E
T. VERRUSCOSUM	163751	34471 E
<b>V</b>		
V. ALIGINOLYTICUS	163503	17749 C
V. FURNISSII	163752	DERIVATIVE OF NCTC 11218 C
V. PARAHAEMOLYTICUS	163504	17802 C
<b>Y</b>		
Y. ENTEROCOLITICA	163506	9610 C
Y. ENTEROCOLITICA	163508	27729 C
Y. ENTEROCOLITICA	163507	23715 C
Y. KRISTENSENII	163509	33639 C
Y. LIPOLYTICA	163505	9773 D
<b>Z</b>		
Z. ROUXII	163511	34890 E
Z. ROUXII	163510	28253 E

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# QUALITY CONTROL KITS

DESCRIPTION	ITEM #	CULTURE COLLECTION #
<b>S</b>		
SALMONELLA ANTIGEN QC SET	163668	
SALT TOLERANCE(6.5% NaCL)	163689	QC SET
SENSITITRE: AUTOMATED	163695	GRAM NEGATIVE ID QC SET
SENSITITRE: MANUAL GRAM	163696	NEGATIVE ID QC SET
SENSITITRE:MIC BREAKPOINT	163697	QC SET
SEPTRA: QC SET	163658	
SHIGELLA ANTIGEN QC SET	163700	
STREP QC KIT	3137	(Bacitracin 0.04)
STREP QC KIT	163137	(Bacitracin 0.04)
STREPTOCOCCUS ANTIGEN	163669	QC SET
STREPTOCOCCUS QC SET	163672	
SXT DIFFERENTIAL TEST	163690	QC SET
<b>U</b>		
UID & UID 3 QC KIT	163702	VITEK
UREASE SPOT TEST QC SET	163691	
UROPATHOGENS QC SET	163670	
<b>V</b>		
VALIDATION KIT (30 DAYS)	163197	
VITEK UID/UID-3	163723	KIT
VITEK GNS F1 QC SET	163720	
VITEK GNS F5 QC SET	163721	
VITEK GPS SA QC SET	163719	
VITEK GPS TA QC SET	163715	
VITEK: ? QC SET	163878	
VITEK: ANI QC SET	163659	
VITEK: ANI QC SET-II	163729	
VITEK: BACILLUS QC SET	163698	
VITEK: GNI PLUS QC SET	163692	
VITEK:EPS QC SET	163660	
VITEK:ESBL QC SET	163841	
VITEK:GNI QC SET	163661	
VITEK:GNS MIC PANELS	163662	QC SET
VITEK:GPI QC SET	163663	
VITEK:GPS MIC PANELS	163664	QC SET
VITEK:GPS MIC PANELS	163707	QC SET II
VITEK:NFC QC SET	163665	
VITEK:NHI QC SET	163666	
VITEK:SLIDEX-STAPH QC SET	163699	
VITEK:YBC QC SET	163667	

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