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## STERILITY TESTING MANUAL

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## **BONE and BONE BANK SPECIMENS**

### **I. Introduction**

Bone specimens and swabs from Bone Bank are submitted for sterility check. These specimens are cultured for 7 days before a final report is issued.

### **II. Specimen Collection and Transport**

Collect specimens aseptically in sterile containers or transport it in its original container.

### **III. Processing of Specimens**

Inoculate up to 1 mL of specimen into a Fastidious Anaerobic Broth.  
Culture:

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<b>Media</b>	<b>Incubation</b>
Fastidious Anaerobic Broth (THIO)	O <sub>2</sub> , 35°C x 7 days

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### **IV. Isolation and Identification**

Read cultures daily for 7 days.

On turbid Fastidious Anaerobic Broths, prepare smear for Gram stain and sub-culture onto:

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<b>Media</b>	<b>Incubation</b>
Chocolate Agar (CHOC)	CO <sub>2</sub> , 35°C x 48 hours (examine at 24 and 48 hours)
Brucella Agar (BRUC)	ANO <sub>2</sub> , 35°C x 48 hours (examine at 48 hours)

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Identify all isolates. **Freeze all isolates.**

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**V. Sensitivity Testing**

Not required.

**VI. Reporting**

Telephone all positive results.

Negative Report: "No Growth"

Positive Report: Report all isolates without quantitation.

**VII. Reference**

American Association of Tissue Banking Standards

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## **BONE and BONE BANK SPECIMENS - Fresh Osteochondral Allograft**

### **I. Introduction**

Fresh allograft bone specimens and swabs from Bone Bank are submitted for sterility check. These specimens are cultured for 7 days. However, these fresh allografts may be transplanted before the final report is issued.

### **II. Specimen Collection and Transport**

Collect the specimen aseptically in sterile containers or transport it in its original container. Label the specimen with Last Name “BONE FRESH” and place a red dot sticker sheet inside the specimen bag. Bone Bank technologist will e-mail the Microbiology charge technologist to alert the Microbiology lab of the arrival of the specimen.

### **III. Processing of Specimens**

Inoculate up to 1 mL of specimen into a Fastidious Anaerobic Broth. Place a **red dot** onto the cap of the broth.

Culture:

<b>Media</b>	<b>Incubation</b>
Fastidious Anaerobic Broth (THIO)	O <sub>2</sub> , 35°C x 7 days

### **IV. Isolation and Identification**

Read cultures twice daily at 8:00 am and 3:00 p.m. for 7 days. Additional readings will be required when a recipient is located AND 15 to 20 minutes prior to transplant in the OR. Document all readings in the LIS.

On turbid Fastidious Anaerobic Broths, prepare smear for Gram stain and sub-culture onto:

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**Media**

**Incubation**

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Chocolate Agar (CHOC)	CO <sub>2</sub> , 35°C x 48 hours (examine at 24 and 48 hours)
Brucella Agar (BRUC)	ANO <sub>2</sub> , 35°C x 48 hours (examine at 48 hours)

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Identify all isolates. **Freeze all isolates.**

**V. Sensitivity Testing**

Not required.

**VI. Reporting**

Preliminary Report:

Negative Report: “No growth to date, further report to follow” Status as preliminary (^P) after every reading.

Positive Report: Remove “no growth...” statement, report based on gram smear and any preliminary identification.  
Telephone all positive reports to the Bone Bank.

Final Report:

Negative Report: "No Growth"

Positive Report: Report all isolates without quantitation.  
Telephone all positive reports to the Bone Bank.

**VII. Reference**

American Association of Tissue Banking Standards

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Section: <b>Sterility Testing Manual</b>	Subject Title: <b>Miscellaneous Sterility Specimens</b>	
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## MISCELLANEOUS STERILITY SPECIMENS

### **I. Introduction**

Specimens such as soap, gel, India ink, talcum powder referred-in from other departments for sterility testing are cultured for 7 days before a final report is issued.

### **II. Specimen Collection and Transport**

Collect specimen aseptically in sterile containers or transport it in its original container.

### **III. Processing of Specimens**

Inoculate up to 1 mL of specimen into a Fastidious Anaerobic Broth. Read cultures daily for 7 days. Read cultures daily for 14 days if specimen is from the P.E.T. Centre at CAMH.

Culture:

<b>Media</b>	<b>Incubation</b>
Fastidious Anaerobic Broth (THIO)	O <sub>2</sub> , 35°C x 7 days O <sub>2</sub> , 35°C x 14 days (PET centre only)

### **IV. Isolation and Identification**

Gram stain and subculture all turbid Fastidious Anaerobic Broths. All isolates require minimal identification eg. *Enterococcus* species, *Enterobacter* species, Gram negative bacilli, *Corynebacterium* species, Gram positive bacilli, mould, etc.

### **V. Sensitivity Testing**

Not required.

### **VI. Reporting**

Telephone positive reports if requested

Negative Report: "No Growth"

Positive Report: Report all isolates without quantitation.

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## PHARMACY STERILITY

### **I. Introduction**

Pharmacy Sterility testing is limited mainly to Pharmacy and Nuclear Medicine liquid preparations for patients. These specimens are tested for 48 hours.

### **II. Specimen Collection and Transport**

Specimens must be collected aseptically in sterile containers or transported in its original container.

### **III. Processing of Specimens**

Inoculate up to 1 mL of specimen into a Fastidious Anaerobic Broth. Read cultures daily for 2 days.

Culture:

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<b>Media</b>	<b>Incubation</b>
Fastidious Anaerobic Broth (THIO)	O <sub>2</sub> , 35°C x 48 hours

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### **IV. Isolation and Identification**

Gram stain and subculture all turbid Fastidious Anaerobic Broths. All isolates are to be identified.

### **V. Sensitivity Testing**

Not required.

### **VI. Reporting**

Telephone all positive reports

Negative Report: "No Growth"

Positive Report: Report all isolates.

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Issued by: <b>LABORATORY MANAGER</b>	Original Date: July 17, 2001	
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## **RADIOPHARMACY / MANUFACTURING PHARMACY (UHN GENERAL DIVISION)**

### **I. Introduction**

Sterility testing for UHN Radiopharmacy and Manufacturing Pharmacy products is performed to ensure proper safety of all products prior to use in patients.

### **II. Specimen Collection and Transport**

Specimens must be collected transported in its original bottle/vial or bag.

### **III. Processing of Specimens**

Inoculate 1 mL of specimen from bottle/vial into the broths listed below.

Inoculate 10 mL of specimen from bag into the broths listed below.

Read these cultures daily for 14 days.

Culture:

<b>Media</b>	<b>Incubation</b>
<b>Specimens in Bottles/Vials:</b>	
Single strength Thioglycollate (TH14)	O <sub>2</sub> , 35°C x 14 days
Single Strength Soya Casein Digest Broth (SD14)	O <sub>2</sub> , RT°C x 14 days
<b>Specimens in Bags:</b>	
Double strength Thioglycollate (ETH14)	O <sub>2</sub> , 35°C x 14 days
Double Strength Soya Casein Digest Broth (ESD14)	O <sub>2</sub> , RT°C x 14 days

**Note:** If specimen contains Benzalkonium Chloride or any other disinfectant, inoculate 0.1 ml. of specimen on a Lethen agar plate to neutralize the disinfectant. Incubate Lethen plate for two days at 37°C and two days at room temperature. Discard after four days.

Keep original specimen at 4°C specimen refrigerator for 1 month.



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**IV. Isolation and Identification**

Gram stain and subculture all turbid Broths. All isolates are to be identified. Depending on results of gram stain, subculture broths onto Blood agar, MacConkey agar and any additional plates indicated.

Replant the original specimen onto a new set of media. Read the newly inoculated media for 14 days.

**V. Sensitivity Testing**

Not required.

**VI. Reporting**

Telephone all positive reports

Negative Report: "No Growth"  
Positive Report: Report all isolates.

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Section: <b>Sterility Testing Manual</b>	Subject Title: <b>Tissue Cultures Specimens</b>	
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## TISSUE CULTURES SPECIMENS FOR INJECTION

### **I. Introduction**

Samples of in vitro cell cultures are submitted for sterility check prior to injection into humans.

### **II. Specimen Collection and Transport**

Specimens are sent in a clean sterile container or in their original container.

### **III. Processing of Specimens**

- i) Direct examination: Gram stain
- ii) Culture:

<b>Media</b>	<b>Incubation</b>
Blood Agar (BA)	O <sub>2</sub> , 35 <sup>0</sup> C x 48 hours
MacConkey Agar (MAC)	O <sub>2</sub> , 35 <sup>0</sup> C x 48 hours
Fastidious Anaerobic Broth (THIO)	AnO <sub>2</sub> , 35 <sup>0</sup> C x 7 days

### **IV. Isolation and Identification**

All isolates are to be identified. Gram stain and subculture all turbid FAB.

### **V. Sensitivity Testing**

Not required.

### **VI. Reporting**

Telephone all positive reports to ward / physician.

Negative Report: "No Growth"  
Positive Report: Report all isolates

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## **DOG (CARDIOVASCULAR LAB) SPECIMENS**

### **I. Introduction**

These specimens are collected from the research laboratory. Dr. Wilson is the contact person (ext. 4795).

### **II. Specimen Collection and Transport**

Specimens are sent in a clean sterile container or in their original container.

### **III. Processing of Specimens**

iii) Direct examination: Gram stain

iv) Culture:

<b>Media</b>	<b>Incubation</b>
Blood Agar (BA)	O <sub>2</sub> , 35 <sup>0</sup> C x 48 hours
MacConkey Agar (MAC)	O <sub>2</sub> , 35 <sup>0</sup> C x 48 hours
Fastidious Anaerobic Broth (THIO)	AnO <sub>2</sub> , 35 <sup>0</sup> C x 7 days

### **IV. Isolation and Identification**

All isolates are to be identified. Gram stain and subculture all turbid FAB.

### **V. Sensitivity Testing**

Not required.

### **VI. Reporting**

Telephone all positive reports to ward / physician.

Negative Report: "No Growth"  
Positive Report: Report all isolates

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Issued by: <b>LABORATORY MANAGER</b>	Original Date: July 17, 2001	
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## ATTEST

### **I. Introduction**

The Attest is a biological indicator used for optimum quality control of steam or gas sterilization. Ampule (green top) for gas sterilization contains *Bacillus subtilis*. Ampule (brown top) for steam sterilization contains *Bacillus stearothermophilus*.

### **II. Specimen Collection and Transport**

The media-containing glass ampoule must be intact until activated in the lab. Damaged Attests will be rejected.

### **III. Procedure**

The Attest must be activated by crushing the media-containing inner glass ampule.

1. With the ampule tilted slightly toward you, place the bottom of the ampule into the 3M Attest dry heating block.
2. Push the ampule straight back into an upright position. This activates the indicator.
3. Push the crushed ampule down to firmly seat it in the 3M heating block.
4. Incubate for 48 hours and read each ampule as follows:

	<b>STEAM ATTEST</b>	<b>FLASH ATTEST</b>	<b>GAS ATTEST</b>
Cap Colour	Brown	Blue	Green
Incubation Temp.	56 <sup>0</sup> C	56 <sup>0</sup> C	37 <sup>0</sup> C
Negative Colour	Purple	Purple	Green
Positive Colour	Yellow	Yellow	Yellow

### **IV. Reporting**

All positive results, excluding control, must be phoned to ward / department and to Infection Control.

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**Control**

Negative Report: "Test spores: No growth" or  
 "Test spores: No growth  
 Control spores: GROWTH"

Positive Report: "Test spores: GROWTH" or  
 "Test spores: GROWTH  
 Control spores: GROWTH / No growth"

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Issued by: <b>LABORATORY MANAGER</b>	Original Date: July 17, 2001	
Approved by: Laboratory Director	Revision Date: August 27, 2003	

## CHEMSPORE / STERIKON

### **I. Introduction**

A chemical and biological indicator used for monitoring steam sterilization processes in wet environments (washer/sterilizer) when a "spore strip" type of sterility indicator cannot be used.

The Chemspore ampoule contains a thermal-sensitive chemical process indicator inside an inner glass tube. The chemical melts and changes colour when minimal heat is applied. The ampoule also contains spores of *Bacillus stearothermophilus* suspended in a bacteriological growth medium containing a pH indicator.

Sterikon ampoule consists of an ampoule that contains nutrient broth, pH indicator and spores of *Bacillus stearothermophilus*.

### **II. Procedure**

1. Place ampoule in the Chemspore or Sterikon incubator preset at 56<sup>0</sup>C. An unexposed (control) ampoule should also be incubated along with the exposed ampoule as a control.
2. Examine ampoules after 24 and 48 hours. The control ampoule medium should turn bright yellow and turbid, indicating viable microorganisms after 24 hours. If it does not turn yellow after 24 hours, check incubator temperature (56<sup>0</sup>C-65<sup>0</sup>C). The test ampoule should be clear with no change in colour, indicating that sterilization has been achieved.

### **III. Reporting**

**All positive test results must be phoned** to the ward / department and to Infection Control.

Negative Report: "Test spores: No growth" or  
"Test spores: No growth  
Control spores: GROWTH"

Positive Report: "Test spores: GROWTH" or  
"Test spores: GROWTH  
Control spores: GROWTH / No growth"

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Issued by: <b>LABORATORY MANAGER</b>	Original Date: July 17, 2001	
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## **DISTILLED/DE-IONISED WATER STERILITY**

### **I. Introduction**

Distilled or de-ionised water samples are submitted for colony count to check for suitability as reagent water in clinical laboratories.

### **II. Specimen Collection and Transport**

1. Open the water tap fully and allow the water to run for a minimum of 1 minute before sampling.
2. Collect a minimum of 10 mL of water into a sterile container large enough to hold the entire sample with ample of air space to allow for mixing. Avoid any splashing.

### **III. Processing of Specimens**

1. Process sample within one hour of sampling or refrigerate up to 6 hours.
2. Vortex sample for 10 seconds.
3. Inoculate 1 mL of sample onto a BHI Agar plate and spread the inoculum over the entire agar surface.
4. Incubate the BHI plate at 35°C x 24 hrs
5. Remove the plate from the incubator and incubate the plate at room temperate for an additional 24 hours.
6. Count and record the number of colonies on the entire agar surface.

### **IV. Reporting**

Negative Report: "No Growth"

Positive Report: Report the number of colonies recorded as "x CFU/mL"

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Section: <b>Sterility Testing Manual</b>	Subject Title: <b>Spore Strip</b>	
Issued by: <b>LABORATORY MANAGER</b>	Original Date: July 17, 2001	
Approved by: Laboratory Director	Revision Date: June 6, 2003	

## **SPORE STRIP**

### **I. Introduction**

A spore strip is used for monitoring steam sterilization (autoclave), chemical vapour sterilization (chemiclave) or radiation processes.

The spore strip is embedded with spores of *Bacillus stearothermophilus* (for autoclave), *Bacillus subtilis* (for chemiclave) or *Bacillus pumilus* (for radiation). The spore strip is put into the sterilizer along with the load of materials to be sterilized. The spore strip is then sent to the lab for testing after the sterilization process. A control strip (unsterilized) may be sent along for testing.

### **II. Procedure**

1. With aseptic technique, transfer spore strip to a 1-mL Trypticase Soy Broth tube.
2. If a control strip is received, transfer the control strip to another 1-mL Trypticase Soy Broth tube.
3. Incubate the Trypticase Soy Broth as follows:  
Check the sterilization method written on the specimen label or the requisition.

<b>Sterilization Method</b>	<b>Incubation Temperature</b>	<b>Length of Incubation</b>
Autoclave	56°C heating block	7 days
Statim autoclave	56°C heating block	7 days
Chemiclave	35°C incubator	7 days
Radiation (primarily from Bone Bank)	35°C incubator	7 days

4. Examine the TSB daily for 7 days.
  5. Confirm growth of Bacillus by performing a gram smear on turbid broths.
- Note:** Send broth to the Provincial Health Lab for identification if requested.

### **III. Reporting**

**All positive test results must be phoned** to the ward / department.

Negative Report: "Test spores: No growth" or  
"Test spores: No growth  
Control spores: GROWTH"

Positive Report: "Test spores: GROWTH" or  
"Test spores: GROWTH  
Control spores: GROWTH / No growth"



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## AIR SAMPLING

### II. Introduction

Air sampling specimens are collected for the purpose of compliance to Clean Air Standard or in case of patient care areas, the Air-Borne Fungal Spore Level. Various apparatus can be used for sampling. The amount of air required to sample will depend on the standard set for the purpose of the particular area. The media used will also depend on the purpose of the area to be measured and the type of organisms to be counted. Culture media that has been subjected to a specified volume of airflow will be submitted to the microbiology lab for incubation and colony count.

### II. Procedure

1. Incubate culture media received at 37°C for 48 hours if bacteria count is required. Incubate culture media at 30°C for 7 days if fungal culture is required.  
Examples of culture media used:

Type of organism	Media	Incubation
Bacteria	<b>Blood Agar</b>	37°C x 48 hours
Fungi	Inhibitory Mold Agar	30°C x 7days
Bacteria	Trypticase Casein Agar	37°C x 48 hours
Fungi		30°C x 7 days
Fungi	Rose Bengal Agar	30°C x 7 days

2. At the end of the required incubation period, perform a total colony count per media.
3. If air flow rate and sampling time was given, calculate the colony forming units per cubic meter of air sampled as follows:  
Flow rate = *a* L/min.  
Sampler running time = *b* minutes  
Volume of air sampled = *a* x *b* L = *ab*/1000 m<sup>3</sup> = *d* m<sup>3</sup>  
Bacterial or mould count = *c* CFU  
Total CFU/m<sup>3</sup> air sampled = *c*/*d* CFU/m<sup>3</sup> air
4. Identify organism only if requested.

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### III. Reporting

If airflow rate information is not provided, report as:

“Bacterial colony count at *incubation temperature* is *X* CFU”

“Mould colony count at *incubation temperature* is *X* CFU”

If airflow information is provided, report as per calculated CFU/m<sup>3</sup>:

“Bacteria colony count *X* CFU/m<sup>3</sup>”

“Mould colony count *X* CFU/m<sup>3</sup>”

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## HEMODIALYSIS WATER STERILITY

### **I. Introduction**

Water samples from hemodialysis machines are submitted for colony count to check for sterility.

### **II. Specimen Collection and Transport**

1. Collect a minimum of 10 mL of water aseptically into a sterile container large enough to hold the entire sample with ample of air space to allow for mixing. Avoid any splashing.
2. Deliver the sample to the Microbiology Lab. immediately or refrigerate the sample at 4 - 6°C and deliver it to the Microbiology Lab within 24 hours of collection.

### **III. Processing of Specimens**

1. Note the collection time of the sample.
2. Process the sample within 30 minutes of collection or refrigerate for up to 24 hours of collection.
3. Vortex sample for 10 seconds.
4. Inoculate 1 mL of sample onto a BHI Agar plate and spread the inoculum over the entire agar surface.
5. Incubate the BHI plate at 35°C x 48 hrs
6. Remove the plate from the incubator after 48 hours of incubation.
7. Count and record the number of colonies on the entire agar surface.

### **IV. Reporting**

Negative Report: "No Growth"

Positive Report: Report the number of colonies recorded as "x CFU/mL"