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| Campy Jar – Micro-Aero Generator | | | | | | | |
| **Purpose** | This procedure provides instructions for CAMPY JAR – MICRO-AERO GENERATOR  The Pack – MicroAero gas generating system produces conditions necessary to support the growth of microaerophilic organisms such as *Campylobacter jejuni* and *Helicobacter pylori*. The atmospheric oxygen is absorbed with the simultaneous generation of carbon dioxide. The reaction proceeds without hydrogen, thus eliminating the need for a catalyst and no water is needed to activate the reaction. | | | | | | |
| **Policy**  **Statements** | This procedure applies to Microbiologists/virologists who perform culture set-up and/or plate reading | | | | | | |
| **Materials** | **Supplies** | | | | **Equipment** | |
|  | * Mitsubishi Pack-Micro Aero sachets   --Remel cat. No. 10-05   * + Store at 2-25ºC until expiration date   + Avoid direct sunlight and excessive temperatures   + Do not use if outer foil is damaged * Mitsubishi 2.5L Rectangular Jar   --Remel cat. No. 68-5025 | | | | * 42ºC ambient air incubator | |
| **Special Safety Precautions** | Microbiologists/virologists are subject to occupational risks associated with specimen handling. Refer to the safety policies**:**   1. [*Biohazard Containment*](file:///G:\LAB\Micro%20Procedure%20Manuals\MC%20200%20%20%20%20Safety\MC%20201%20%20%20Biohazard%20Containment%20R.doc) 2. [*Safety in the Microbiology/Virology Laboratory*](file:///G:\LAB\Micro%20Procedure%20Manuals\MC%20200%20%20%20%20Safety\MC%20202%20Safety%20in%20the%20Microbiology%20Lab%20Policy%20R.docx) 3. [*Biohazardous Spills*](file:///G:\LAB\Micro%20Procedure%20Manuals\MC%20200%20%20%20%20Safety\MC%20204%20Biohazardous%20Spills%20R.docx) | | | | | | |
| **Quality Control** | 1. QC testing is performed using biological controls on a SB tri-plate with the following organisms:    * *Campylobacter jejuni* ATCC 33291    * *Clostridium perfringens* ATCC 13124    * *Pseudomonas aeruginosa* ATCC 27853 2. Perform QC with each new lot or shipment before put into service. Record results in QC manual. 3. Perform daily QC with each jar that is closed. Record on Monthly DESK4 QC Chart. 4. Check jar and lid for cracks. 5. Check jar seal ring. It is important to keep the seal clean. Wash jars with mild soap when necessary. 6. If there is a QC failure, document observation, notify supervisor and call Remel technical service at 1-800-447-3641 or Mitsubishi at 1-212-752-4620. | | | | | | |
| **Procedure** | 1. Place inoculated plates in compartment **A** of a 2.5 L jar (up to 12 plates).      1. Place the Campy sachet in compartment **B.** 2. If needed; to provide moisture, place a tissue or cotton ball moistened with water (approx. 5 ml) in compartment **C**. 3. Close the jar immediately. The time should not exceed 1 min between opening the sachet and sealing the jar. 4. To close the jar, hook the larger latches simultaneously, then the shorter latches. 5. After incubation, open the jar by releasing the larger latches simultaneously and then the shorter latches. If the proper procedure is not followed, the latches will break and the integrity of the jar will be lost. 6. If the jar is difficult to open after the latches are released, lift one corner to release the negative pressure. 7. Discard sachet in the biohazardous waste container. | | | | | | |
| **Interpretation/ Results/Critical Values** | 1. All three QC organisms should grow indicating proper atmospheric conditions have been achieved. 2. If *Pseudomonas aeruginosa* and *Campylobacter* do not grow, the jar did not contain enough oxygen. Check if the correct AnaeroPack was used. 3. If the *Clostridium perfringens* and *Campylobacter* do not grow, the jar contained too much oxygen. Check the jar for cracks or bad seal. 4. If all three organisms do not grow, check for proper incubation temperatures. 5. Do not report patient results if there is a failure. | | | | | | |
| **References** | 1. Mitsubishi Gas Chemical America, INC., product circular 10-05, July 2002, 520 Madison Ave., New York, NY 10022. | | | | | | |
| **Training Plan/ Competency Assessment** | **Training Plan** | | | **Initial Competency Assessment** | | | |
| 1. Employee must read the procedure 2. Employee will observe trainer performing the procedure. 3. Employee will demonstrate the ability to perform procedure, record results and document corrective action after instruction by the trainer. | | | 1. Direct observation. | | | |
| **Historical Record** |  |  |  | | |  | |
|  | **Version** | **Written/Revised by:** | **Effective Date:** | | | **Summary of Revisions** | |
| 1 | Pat Ackerman | 09/12/1999 | | | Initial Version | |
| 1.2 | Tina Gronquist | 07/30/2014 | | | Updated into online format. | |
| 2 | Becky Carlson | 4/4/2015 | | | Re-numbered from MC 806 | |
|  | 2 | Susan DeMeyere | 8/8/2017 | | | Update logo and name of monthly QC chart. | |  |  |
| **Archived by:** |  | **Archived Date:** | | |  | |