

PASS 4[™] Aseptic Manipulation Competency Evaluation Directions for Use

<u>2023 USP <797></u> Competency Testing in Aseptic Manipulation

additional Cultivate[™] Directions for Use and test logs go to <u>www.parasoImed.com/cultivate/cultivate-resources</u>

Testing Overview and Frequency

	Cat. 1 / Cat. 2 CSP Compounder	Cat. 3 CSP Compounder	Personnel who have direct oversight of compounding personnel	
Initial Evaluation	Initially all personnel must successfully complete the aseptic manipulation competency evaluation consisting of a visual observation, media-fill testing, followed by a gloved fingertip and thumb sampling of both hands, and surface sampling of the direct compounding area to assess aseptic technique and related practices.			
Subsequent Evaluations	At least once every 6 months	At least once every 3 months	At least once every 12 months*	

Intended Use

Cultivate[™] PASS 4[™] pre-assembled media fill test kit (Cat. #PTLV125) is recommended for verifying personnel no-sterile to sterile aseptic media-fill technique. Each kit contains enough media to perform aseptic technique verification for up to one technicians with general procedures. Modify procedures to simulate actual compounding procedures better. Supplement test with ClearCheck[™] a la carte components as needed. If you need assistance modifying, designing, or selecting the right Cultivate[™] test kit for your facility, contact your local sales representative. This product is not intended to be used for the diagnosis of animal or human disease. Download a copy of the media lot specific Certificate of Analysis (CoA) at **www.parasolmed.com/cultivate/cultivate-resources.** When performing a media-fill test, simulate the most difficult and challenging aseptic compounding procedures encountered by the person replacing all the components used in the CSPs with soybean-casein digest media (Tryptic Soy Broth, TSB). The simulation must capture elements that could potentially affect the sterility of the CSP including but not limited to:¹

- Factors associated with the length of the process that can pose contamination risk (e.g., operator fatigue, quality of equipment)
- Number of aseptic additions or transfers
- Number, type, and complexity of manipulations
- Number of personnel in the buffer room or SCA

Storage, Stability, and Destruction

Cultivate[™] PASS 4[™] kits should be kept unopened at room temperature and protected from light. Do not allow the components to freeze. The media should not be used if there are any signs of deterioration, contamination, or if the expiration date has passed. Any components showing microbial growth and all used components should be discarded in accordance with State and Federal regulation.

Incubation Procedure

Incubate the final container(s) at 20°- 25°C and 30°-35°C for a minimum of 7 days at each temperature band to detect a broad spectrum of microorganisms. The order of the incubation temperature must be described in the facility's SOPs. The final container(s) must be incubated in an incubator.¹

Interpreting Results

Media-Fill Test: Failure is indicated by visible turbidity or other visual manifestations of growth in the media in one or more container closure unit(s) on or before the end of the incubation period. Microbial identification of the cfu is not required for media-fill testing.¹

<u>Gloved Fingertip and Thumb Test</u>: Successful completion of the gloved fingertip and thumb sampling after media-fill testing is defined as \leq 3 cfu as a total from both hands. Microbial identification of the cfu is not required for gloved fingertip and thumb sampling.¹

Surface Sample Test: Failure is indicated by cfu count(s) high than the action levels for the associated ISO Class. Evaluate cfu counts against the action levels, and examine counts in relation to previous data to identify adverse results or trends. If levels measured during surface sampling exceed the levels for the ISO classified levels of the area sampled, the cause must be investigated and corrective action must be taken. If levels measured during surface sampling exceed the action levels, an attempt must be made to identify any microorganism recovered to the genus level with the assistance of a microbiologist.¹

A failure in the media fill, gloved fingertip and thumb sampling, or surface sample constitutes an overall failure of the aseptic manipulations competency.¹

Results of the evaluation and corrective actions must be documented and the documentation maintained to provide a record and long- term assessment of personnel competency.¹

The Cultivate™ PASS 4[™] Aseptic Media Fill Test Log was specifically designed for meet all of the documentation requirements for the 2023 USP <797> Chapter 2.3 Competency Testing in Aseptic Manipulation. For additional test log sheets visit <u>www.parasolmed.com/cultivate/cultivate-resources.</u>

Action Levels for Gloved Fingertip and Thumb Sampling, per 2023 USP <797>1

Gloved Fingertip and	Action Levels	
Thumb Sampling	(cfu, total from both hands)	
After media-fill testing	>3	

Action levels are based on the total cfu count for both hands

Surface Sampling Action Levels, per 2023 USP <797>1

ISO	Surface Sampling Action Levels
Class	(cfu/device or swab)
5	>3

Action levels are based on the total cfu count for both sides of paddle

TSB Media Ingredient: Pancreatic digest of casein, peptic digest of soybean meal, sodium chloride, dipotassium hydrogen phosphate, dextrose (glucose monohydrate). Final pH 7.3 +/- 0.2 at 25°C. Tryptic Soy Broth is widely used for the cultivation of microorganisms from environmental sources; supporting the growth of the majority of bacteria and fungi.

BEFORE YOU BEGIN: Inspect the product and media carefully before starting to test. If the media and particulate prior to testing, then any particulate observed after collecting the samples or incubating the samples will have been introduced by the compounding personnel. If particulate is observed prior to opening or using the product, please contact your local sales rep.

Perform aseptic procedures in accordance with USP <797>. The procedures outlined are intended to provide general manipulation steps for using this product only. The procedures should be modified to simulate actual aseptic manipulations performed at the facility or by the technician. Per USP <797>, aseptic manipulation testing should replicate the technician's most complex manipulation. Always use appropriate gowning techniques. Sanitize and disinfect surfaces and the outside of containers-including ampules, septa, vials, and bag-ports prior to use. Failure to perform gowning procedures or to adequately sanitize or disinfect surfaces or the outside of containers, including ampules, vial septa, and bag ports prior to use may result in growth during incubation or a failed test. Perform all manipulations inside the laminar air flow clean bench or similar environmentally controlled area using a validated process. An assessment should be performed to determine if additional supplies or equipment are needed to validate the process when performing complex manipulations or in the verification of aseptic technique. Technicians should be re-certified at regular intervals as dictated by laboratory needs or determined by the complexity or risk level performed.

Aseptic Media Fill and Manipulation General Test Procedures

- 1. Label the empty sterile 20mL vials with the date the challenge is performed and the initials of the person performing the procedure. Label three of the vials "Control 1", "Control 2" and "Control 3". Label the remaining six vials with the numbers "1" through "6".
- 2. In an area outside of the Laminar Air Flow workbench or isolator, remove the cap from the Tryptic Soy Broth powder bottle by unscrewing it. Using a graduated cylinder, prepare a 3% solution of non-sterile Tryptic Soy Broth by adding 100mL of water (non-bacteriostatic) to the bottle containing 3g of powder. Replace the cap and tighten it. Invert the bottle several times to mix. Ensure that all of the powder is dissolved before proceeding.
- 3. Take the prepared non-sterile broth to the Laminar Air Flow workbench or isolator. Withdraw 25mL of the broth using a 30mL sterile syringe.
- 4. Transfer 5mL of the broth to the vial labeled as "Control 1".
- 5. Remove the needle from the syringe and using aseptic technique, affix a sterile 0.2 micron porosity filter unit and a 20-gauge needle to the syringe.
- 6. Inject 10mL from the syringe into the vial labeled "1". Inject another 10mL into the vial labeled "2".
- 7. Aseptically remove the filter unit and needle. Withdraw another 25mL of the non-sterile Tryptic Soy Broth. Transfer 5mL of the broth to the vial labeled as "Control 2".
- 8. Repeat steps 5 and 6 using vials "3" and "4".
- 9. Aseptically remove the filter unit and needle. Withdraw another 25mL of the non-sterile Tryptic Soy Broth. Transfer 5mL of the broth to the vial labeled as "Control 3".
- 10. Repeat steps 5 and 6 using vials labeled "5" and "6".
- 11. Aseptically apply sterile adhesive seals to the rubber closures of the nine vials.
- 12. Transport all nine vials to the incubator. Room permitting in you incubator, you can use the PTLV125 thermal form tray to hold the vials while incubating.

See reverse side for incubation procedures and how to interpreting results.

10. Following the test exercise, carefully and completely clear the compounding area of all testing supplies and equipment, thus preventing these materials from entering the institutional drug stream.

Aseptic Manipulation Competency Gloved Fingertip and Thumb Sampling

Immediately following the media-fill test, gloved fingertip and thumb sampling must be performed on both hands and inside of an ISO Class 5 PEC. If conducting gloved fingertip and thumb sampling in a compounding aseptic isolator (CAI), compounding aseptic containment isolator (CACI), or a pharmaceutical isolator (CAI), samples must be taken from the sterile gloves placed over the gloves attached to the restricted-access barrier system (RABS) or pharmaceutical isolator sleeves.

- Use Contact[™] Media Paddles Cat. No.: TD100
- Visit <u>www.parasolmed.com/cultivate/cultivate-resources</u> to download Cultivate[™] 2023 Gloved Fingertip and Thumb Sampling Direction for Use for aseptic manipulation competency GFT sampling procedures, paddle incubation instructions, and how to interpret results.

Aseptic Manipulation Competency Surface Sampling

Media-fill testing must also be followed by surface sampling of the direct compounding area in accordance with the requirements of 2023 USP <797) 6.3 Monitoring Surfaces for Viable Particles.

- Use Contact[™] Media Paddles Cat. No.: TD100
- Visit <u>www.parasolmed.com/cultivate/cultivate-resources</u> to download Cultivate[™] 2023 Environmental Surface Sample Direction for Use for aseptic manipulation competency surface sampling procedures, paddle incubation instructions, and how to interpret results.