State of Connecticut Department of Consumer Protection Drug Control Division DCP.DrugControl@ct.gov



Sterile Compounding Inspection

Facility Information						
Facility Name					Date	
Facility Address					Phone #	
Pharmacy Manager/Director					Fax #	
Manager/Director E-mail						
Licenses and Accreditation						
CT Pharmacy License (PCY) #				CSP # (Hospital)		CT Manufacturer License # (CSM)
DEA License #				DEA Type		FDA License #
Other State Licenses and Accreditations						
A. Required Documentation						
List of Pharmacists and Technicians that compound/enter clean room provided?	Yes	No	Comment			
2. Documentation for competency for the Pharmacist/technicians provided?	Yes	No	Comments			
3. List of all the States the pharmacy is licensed in besides Connecticut provided?	Yes	No	Comment			
Last two Certification Reports provided? (Please include the certification of the Primary Engineering Controls (PEC) including pre-filter changes)	Yes	No				
5. Documentation of last two Media Fill tests provided? (Provide information on the kits used)	Yes	No	Comment			
Documentation of last two Gloved Fingertip test provided? (Provide information on agar plates used)	Yes	No	Comment			

7. Copy of PCAB, Joint Commission accreditation or any other provided?	Yes	No	N/A	Comment
8. Standard operating procedures (SOP) for the clean room, cleaning, and environmental testing provided?	Yes	No		Comments
9. Is all of the cleaning of the compounding rooms performed by the pharmacy staff? (If no, please provide the name of the service/ department and arrange for their participation during the inspection)	Yes	No		Comments
10. A list of all cleaning products used in the compounding room provided? (Please include the kill times and coverage of organisms)	Yes	No		Comments
11. Documentation for all the environmental monitoring (EM) done by the hospital provided? (air sampler information)?	Yes	No	N/A	Comments
12. Has the facility provided a temperature log including a range for the maximum/minimum?	Yes	No		Comments
13. Has the facility provided a pressure log for all compounding areas?	Yes	No		Comments
14. Has the facility provided a humidity log for all compounding areas?	Yes	No	N/A	Comments
15. Has the facility provided documentation showing that the products used for garbing and cleaning are non-shedding or non-linting?	Yes	No		
16. Is there a representative available to discuss the heating, ventilation, air conditioning (HVAC) system at the time of the inspection?	Yes	No		Comments (areas surrounding compounding rooms)
17. Has the facility provided a list of the facilities/outsourcing pharmacies that provide compounded product?	Yes	No	N/A	Comments
18. Has the facility provided documentation of all work orders in the compounding areas for the past year?	Yes	No	N/A	Comments

Personnel

Total # of pharmacists
 Compounding

- 2. Total # of technicians compounding
- 3. Number of Sales Personnel

Pharmacy Questionnaire

- 1. How many sterile compounding areas are in the primary facility site?
- 2.How many satellite facilities do you have with sterile compounding? (Please list the facilities)
- 3. Type of compounding performed

Low Risk Medium Risk High Risk

- 4. Top 2 products products/list of products compounded
- 5. What type of facilities are the compounded products provided to?
- 6. What states are the products distributed to?
- 7. Does the facility compound chemotherapy agents?

Yes No

8. Does the facility compound patient specific medications?

Yes No

9. Does the facility compound non-patient specific medications?

same standards as compounding

for human patients?

Yes No

In the following questions pertaining to Beyond Use Date (BUD), please define your process low risk, medium risk and high risk including the storage type (refrigeration, freezing, etc.)

In the following questions per	taining to Beyond l	Jse Date (BUD)	, please define your prod
10. BUD's used for the types level of the compounded production		No	Comments
11. Does the pharmacy have appropriate compounding references including USP Ch 797, injectable drug compatible hazardous materials references	ility,	No	Comments
12. Does the pharmacy distril sterile compounded preparati to practitioners for office use?	ons	No	Comments
13. Does the pharmacy distril sterile compounded preparati to hospitals, clinics, or surger centers?	ons	No	Comments
14. If the pharmacy compoun sterile preparations for anima does the compounding meet	ls,	No	N/A

15. Does the pharmacy compound allergen extracts?	Yes	No	
16. Does the pharmacy compound radiopharmaceuticals?	Yes	No	
17. Does the pharmacy compound parenteral preparations?	Yes	No	
18. Does the pharmacy compound ophthalmic preparations?	Yes	No	
19. Does the pharmacy compound inhalation preparations?	Yes	No	
14. Does the pharmacy compound parenteral suspensions?	Yes	No	
15. Does the pharmacy compound preservative-free parenterals?	Yes	No	
16. Does the pharmacy make a copy of an approved product?	Yes	No	
17. Are products to be sterile compounded appropriately identified as hazardous?	Yes	No	
18. Does the pharmacy make any compounded preparations using bulk powder Active Pharmaceutical Ingredients (APIs)?	Yes	No	
Number of BSC			
Number of CAI			
19. Are camera's used for verification in the PECs?	Yes	No	

Number of LAFW Number of CACI

A. Component Selection and Use 1. Are products to be compounded appropriately identified as low-risk? (Check all that apply)		than thr	ee sterile drug pack						
appropriately identified as low-risk?		than thr	ao etorilo drua nack						
	Sterile eq		ee sterile drug pack	ages used					
(Спеск ан шасарру)	Sterile equipment								
	Compounded in an ISO Class 5 hood in an ISO Class 7 clean room (if ISO Class 5 hood NOT in ISO Class 7 clean room, max BUD 12 hours)								
	Limited ba	asic clos	sed system aseptic t	ransfers and manipulations					
2. Are products to be compounded	Uses four or more sterile ingredients								
appropriately identified as medium- risk? (Check all that apply)	Complex	aseptic ı	manipulations other	than single volume transfer					
risk: (Check all that apply)	-			•	ultiple patients or to one patient	t on multiple occasions			
	Compoun	ding pro	ocess of unusually lo	ong duration (dissolution, ho	mogeneous mixing)				
3. Are products to be compounded	Made with	non-ste	erile ingredients, no	n-sterile devices, or non-ste	ile containers				
appropriately identified as high- risk? (Check all that apply)	Prepared with sterile ingredients but exposed to <iso 5="" air<="" class="" td=""></iso>								
non. (onock all that apply)		Greater than a six-hour delay before sterilization							
	Purity of c	compone	ents assumed but no	ot verified					
4. Are immediate use compounds	Asepticall								
appropriately identified? (Check all that apply)	•	Simple transfer ≤ 3 commercially manufactured non-hazardous products							
		Not > 2 entries into any container							
	Administra	ation be	gins ≤ 1 hour from s	start of compounding					
B. High Risk Compounding									
High Risk Compounding performed? (if no, skip this section)	Yes	No							
Are certificates of analysis (COAs) obtained for all APIs?	Yes	No							
1a. Are the COAs domestic or foreign?	Domestic	F	Foreign						
1b. If the source is a foreign FDA facility, does the pharmacy obtain information on the last FDA inspection of that facility and a copy of the report?	Yes	No							
Does the pharmacy perform any testing/analysis of APIs?	Yes	No							
2a. If so, indicate how API is selected for testing, what tests are performed and if tested in-house or sent to an outside lab - indicate which lab in notes.	In-house		Outside lab	Comment (list lab(s))					
3. Are USP- or NF-grade substances used, if available?	Yes	No							
3a. If compendial quality components are not available, are chemically pure, analytical reagent grade or American Chemical Society-certified components used?	Yes	No	N/A	Comment					

3c. Are other means used to establish purity and safety?	Yes	No	N/A	Comment
4. Do any of the labels state "For Research Purposes Only" or "Not for Drug Use" or "Veterinary Use only" or similar?	Yes	No	Cor	nment
5. Do all substances and components have a complete label including a batch control or lot number, an expiration date, and are marked with the date of receipt?	Yes	No	Cor	nment
6. For substances without an expiration date assigned by the manufacturer or supplier, does the pharmacy have a procedure to assign a conservative expiration date and is it followed?	Yes	No	Cor	nment
7. Does the pharmacy repackage APIs into smaller containers for ease of use?	Yes	No	Cor	nment
7a. If so, how is the expiration date determined for the repackaged product?				
When manufactured products are used for compounding, do the labels contain a lot number and expiration date?	Yes	No	Cor	nment
9. Are any preparations made or ingredients used that appear on the FDA list of drug products withdrawn or removed from the market for safety reasons?	Yes	No		
9a. How does the pharmacy determine this?				
10. Does the pharmacy compound its own stock solutions or components that are then used to compound a finished product?	Yes	No		
10a. If so, how are BUDs determined?				
10b. Are the compounded stock solutions prepared in batches that are exposed longer than 12 hours at 2-8°C (25-46°F) or longer than six (6) hours at warmer than 8°C (46°F) before being sterilized?	Yes	No	Cor	nment
10c. Are all compounded stock solutions that will be used as a component of a finished product tested for sterility and stability?	Yes	No	Cor	nments

11. When using its own					
compounded stock solution, is it used without dilution in a final preparation (repackaged as-is into smaller or unit-of-use packages)?	Yes	No	N/A		Comments
11a. If so, are these preparations given extended BUDs?	Yes	No			
11b. How is the BUD determined?					
12. When using its own compounded stock solution, is it used as a component of a preparation (made less concentrated by the addition of a diluent or other component)?	Yes	No			
12a. If so, are these preparations given extended BUDs?	Yes	No			
12b. How is the BUD determined?					
13. Trace two preparations from API to finished product.					
C. General Facility					
C. General Facility 1. Are both sterile and non-sterile compounding areas separated and distinct?	Yes	No	N/A		
Are both sterile and non-sterile compounding areas separated and	Yes	No No	N/A	Comments	
Are both sterile and non-sterile compounding areas separated and distinct? Is entry into the sterile compounding areas limited to task critical employees (limited to only the pharmacist(s) and other trained			N/A	Comments	
1. Are both sterile and non-sterile compounding areas separated and distinct? 2. Is entry into the sterile compounding areas limited to task critical employees (limited to only the pharmacist(s) and other trained and authorized personnel)? 3. Does the ante-room have a line of demarcation or other separation	Yes	No	N/A	Comments	
1. Are both sterile and non-sterile compounding areas separated and distinct? 2. Is entry into the sterile compounding areas limited to task critical employees (limited to only the pharmacist(s) and other trained and authorized personnel)? 3. Does the ante-room have a line of demarcation or other separation of the dirty to the clean side? 4. Are carts used to bring supplies from the storeroom kept on the	Yes	No No	N/A	Comments	

7. Are walls painted with epoxy based paint or other impermeable surface, and are they seamless or have sealed seams where panels meet and corners with no cracks?	Yes	No	Comment	s			
8. Are the ceiling tiles composed of a vinyl surface, with the tiles caulked and sealed and are the seams where the walls meet the ceiling caulked and sealed?	Yes	No	Comment	S			
9. Is the floor overlaid with:	Wide Sh	eet Flooring			Comments		
		s or heat welde	d seems				
		o the sidewall	a 0000				
	-		coving meets the	side wall			
	Other	cam where the	coving media the	Side Wall			
10. Does the clean room or ante- room have dust collecting overhangs, such as ceiling utility pipes, or ledges?	Yes	No					
10a. Are all sprinkler heads flush with the ceiling?	Yes	No					
11. Are the exposed surfaces of the light fixtures smooth, mounted flush, and sealed?	Yes	No					
12. Is there a sink with hot and cold running water located in the ante room or near the sterile compounding area that enables pharmacy personnel to wash hands and enter the sterile compounding area without contaminating his/her hands, and is there an eyewash station?	Yes	No					
13. Is there a sink or a floor drain in the clean room/buffer room? (This is not allowed)	Yes	No					
D. Heating, Ventilation and Air Cond	itioning (H	VAC)					
Are all air ducts controlling air flow into the sterile compounding area equipped with High Efficiency Particulate Air filtered air that maintains the cleanroom with an ISO Class 7 environment?	Yes	No N	/A	Comments			
2. Are incoming air ducts through HEPA filters on or near the ceiling and are air return ducts low on the walls to facilitate turbulent air flow in the ante-room and clean room?	Yes	No N	/A	Comments			

Is there any particle generating equipment (computers,	Yes	No	Comments			
refrigerators, etc.) in the clean room/buffer room or anteroom?						
3a. If there is particle generating equipment in the clean room or ante-room, is the equipment located by an air return so air flows over and out of the room taking particles with it, and has this air flow has been confirmed by smoke testing? View certification report for the room and specifically look at particle counts taken in the area of the equipment.	Acceptal	ble	Unacceptable	Insufficient Information	Comments	
4. Does the sterile compounding area have a fan?	Yes	No				
4a. Has it been validated to not affect airflow in the ISO Class 5 PEC?	Acceptal	ble	Unacceptable	Insufficient Information	Comments	
5. Are coffee, water, chewing gum, candy, or food items prohibited by SOP or signage from the clean room/buffer area or ante-room?	Yes	No	Comments			
6. Are sterile compounded products prepared with aseptic manipulations 6 inches within ISO Class 5 or better air quality hood or shielded laminar flow work area using only sterile ingredients, products, components, and devices?	Yes	No	Comments			
7. Is the ISO Class 5 compounding area located within an ISO Class 7 clean room or buffer area?	Acceptal	ble	Unacceptable	Insufficient Information	N/A	Comments
8. Is the ISO 7 clean room positive pressure to the ISO 7 or 8 ante room? Record pressure differential.	Acceptal	ble	Unacceptable	Insufficient Information	N/A	Comments
Is the hazardous compounding room and hazardous drug storage area negative pressure to the ISO 7 ante room? Record pressure differential.	Acceptal	ble	Unacceptable	Insufficient Information	N/A	Comments
10. Is the ISO Class 7 or 8 ante room positive pressure to the general pharmacy areas? Record the pressure differential.	Acceptal	ble	Unacceptable	Insufficient Information	N/A	Comments
11. Are pressure differential monitoring procedures in place including an alarm or alert when there is an excursion? Verify by viewing daily logs and ensure a plan is in place if discrepancy is found.	Acceptal	ble	Unacceptable	Insufficient Information	N/A	Comments

12. If the close room and entercom	Acceptab	lo.	Linaccontable	Insufficient Information	N/A	Comments
12. If the clean room and anteroom are not fully enclosed, is the air flow measured across the openings? Record the air flow.	Acceptab	ie	Unacceptable	insumment information	IV/A	Comments
13. Are air flow monitoring procedures in place including an alarm or alert if the air flow drops below the limit?	Acceptab	le	Unacceptable	Insufficient Information	N/A	Comments
14. Is the temperature of the compounding area controlled by a thermostat and an adequate air conditioning system (anteroom and cleanroom) maintained between 64-72°F (18-22°C)?	Acceptab	le	Unacceptable	Insufficient Information	Comments	
15. Is the humidity monitored daily and in the range of 35%-60% in the sterile compounding area?	Acceptab	le	Unacceptable	Insufficient Information	Comments	
16. Are the blowers on ISO 5 laminar airflow workbenches (LAFW) or barrier isolators operated continuously during compounding activity, including during interruptions of less than eight hours?	Acceptab	le	Unacceptable	Insufficient Information	Comments	
17. Are the doors into the ante- room from the general pharmacy area and from the anteroom into the clean room interlocked to prevent both being open at the same time?	Acceptab	le	Unacceptable	Insufficient Information	Comments	
18. Are the inside and outside doors of a pass-through interlocked to prevent both being open at the same time?	Acceptab N/A	le	Unacceptable	Insufficient Information		Comments
E. LAFW NOT located in ISO Class	7 buffer area	a:				
Does the facility have a LAFW Not located in ISO Class 7 buffer area? (If no, skip this section)	Yes	No				
Is compounding restricted to low-risk preparations with a maximum BUD of 12 hours?	Acceptab	le	Unacceptable	Insufficient Information	Comments	
2. Are all garbing requirements adhered to?	Acceptab	le	Unacceptable	Insufficient Information	Comments	
3. Is the LAFW located in an area that is maintained under sanitary conditions physically located in a low traffic area?	Acceptab	le	Unacceptable	Insufficient Information	Comments	
 Does the location contain any unsealed windows or doors? (If unacceptable, describe surrounding areas) 	Acceptab	le	Unacceptable	Insufficient Information	Comments	

5. Is the sink separated from the immediate area of the ISO Class 5 workbench (not adjacent)?	Acceptable	Unacceptable	Insufficient Information	Comments	
F. CAI or CACI NOT located in ISO C	lass 7 buffer area				
Does the facility have CAI or CACI Not located in ISO Class 7 buffer area?	Yes No				
Does the CAI/CACI maintain ISO Class 5 under dynamic conditions including transferring of ingredients, components and devices, and during preparation of CSP? NOTE: for certification, particle counts must be sampled 6 to 12 inches upstream of the critical exposure site.	Acceptable	Unacceptable	Insufficient Information	Comments	
2. Does the pharmacy have documentation from the manufacturer that the CAI or CACI will meet this standard when located in worse than ISO Class 7 environments?	Acceptable	Unacceptable	Insufficient Information	Comments	
3. Is the CAI or CACI located in an area that is maintained under sanitary conditions and utilized only for sterile compounding?	Acceptable	Unacceptable	Insufficient Information	Comments	
4. For hazardous compounding in a CACI that is NOT located in a buffer area, is the CACI located in a physically separated area that maintains a negative pressure of 0.01" water column pressure to adjacent areas and a minimum of 12 ACPH?	Acceptable	Unacceptable	Insufficient Information	N/A	Comments
G. Garbing					
1. Is garbing performed from the dirtiest to the cleanest starting with dedicated shoes or shoe covers that are donned as the line of demarcation is crossed?	Acceptable	Unacceptable	Comment		
1a. Does garbing then progress to head and facial hair covers and masks?	Acceptable	Unacceptable	Comments		
2. Is hand cleaning performed in the ante-room for at least 30 seconds from finger tip to forearm and does it include use of a nail pick?	Acceptable	Unacceptable	Comments		
2a. Are hands and arms then dried with a non-linting disposable towel?	Acceptable	Unacceptable N/A	Comments		

2b. Are hands and arms dried using a hand dryer?	Yes No	N/A	Comments		
2c. If yes to 2b, has the hand dryer been validated by a certification company to not disrupt laminar air flow?	Acceptable	Unacceptable	Insufficient Information	N/A	Comments
3. Is the gown non-shedding?	Acceptable	Unacceptable			
4. Is all bare skin covered on the arms and the legs?	Acceptable	Unacceptable	Comments		
5. Prior to donning sterile gloves, is a waterless alcohol based surgical hand scrub with persistent activity used and are hands allowed to dry?	Acceptable Unacceptable		Comments		
Upon leaving the sterile product compounding area, are gowns taken off and disposed of?	Yes No	Comments			
6a. If gowns are not disposed of, are they left in the ante-room and not reused for longer than one shift or to gown manufacturers expiration?	Acceptable	Unacceptable	Comments		
6b. If gowns are not disposed of, are the chemo and I.V. gowns physically separated on hangers in the ante-room?	Acceptable	Unacceptable	Comments		
7. Do pharmacists or any other personnel enter the ante-room and cross the line of demarcation without proper garb?	Acceptable	Unacceptable	Comments		
8. Is there documentation that new compounding personnel have passed an initial observed gowning procedure and three gloved fingertip sampling tests? Must be zero CFUs/plate on any testing	Acceptable	Unacceptable	Comments		
9. Is there documentation that compounding personnel have passed an annual (every six months for those performing high risk compounding) observed gowning procedure and gloved fingertip sampling test? Must be 3 or less CFU/plate upon revalidation	Acceptable	Unacceptable	Comments		

10. Is there documentation that a media fill test procedure is performed for each compounding employee at least annually for individuals that compound low or medium risk-level products . The test conditions must closely simulate the most challenging or stressful conditions encountered during compounding of the highest risk level product.	Acceptable	Unacceptable	Comments	
11. Is there documentation that a media fill test procedure is performed for each compounding employee at least semi-annually for individuals that compound high risk-level products . The test conditions must closely simulate the most challenging or stressful conditions encountered during compounding of the highest risk level product.	Acceptable	Unacceptable	Insufficient Information Comments	
12. Do the media-fill testing procedures include: (all must be	media selection fill volume		Comments	
selected to be acceptable)	incubation time ar	nd temperature		
	inspection of filled	I units		
	documentation			
	interpretation of re	esults		
		the corrective actions requir	ed	
	Not Applicable			
13. Are personnel prohibited from entering the clean room or ante room if they have a rash, sunburn, weeping sores, conjunctivitis, or an active respiratory infection?	Acceptable	Unacceptable	Comments	
13a. Is there a SOP in place for personnel with rash, sunburn, weeping sores, conjunctivitis, or an active respiratory infection to be prohibited from accessing the compounding areas?	Acceptable	Unacceptable	Comments	
14. Are personnel required to wear dedicated clothing before entering compounding areas?	Acceptable	Unacceptable	Comments	
15. Are personnel required to remove all hand and wrist jewelry, and all visible jewelry or piercings?	Acceptable Unacceptable		Comments	
16. Are personnel prohibited from wearing artificial nails or extenders, and required to keep natural nails neat and trimmed?	Yes No	Comments		

1. Are all personnel that perform cleaning activities in the compounding areas appropriately trained (including housekeeping or other outside personnel if used for cleaning)?	Acceptable	Unacceptable	Insufficient Information	Comments
2. Are all personnel performing cleaning appropriately garbed?	Acceptable	Unacceptable	Insufficient Information	Comments
3. Is the sterile compounding area equipped with appropriate non-shedding cleaning equipment and supplies? All cleaning tools, such as wipers, sponges, and mops, must be non-shedding, dedicated to and labeled for use in either the buffer or clean area (no wooden handles are allowed).	Acceptable	Unacceptable	Insufficient Information	Comments
4. If cleaning tools are reused, is there a procedure to rinse and sanitize the tools and an appropriate clean storage area and are buckets inverted to prevent moisture accumulation?	Acceptable	Unacceptable	Insufficient Information	Comments
5. Are tools appropriately labeled to prevent them from being used inappropriately? For example, a mop used for the floors cannot also be used for the ceilings and walls.	Acceptable	Unacceptable	Insufficient Information	Comments
6. Are there formulas and instructions for mixing or diluting the cleaning and sanitizing agents prior to use and is the preparation of cleaning supplies documented?	Acceptable	Unacceptable	Insufficient Information	Comments
7 Are cleaning and sanitizing agents appropriately labeled including expiration dates?	Acceptable	Unacceptable	Insufficient Information	Comments
8. Are appropriate cleaning agents used that are effective for bacteria, viruses, fungi, and spores? Indicate how often a sporicidal agent is used. List products used in note.	Acceptable	Unacceptable	Insufficient Information	Comments
9. Are sanitizing agents rotated?	Yes No			
9a. If yes, how often				
10. Is the ISO 5 PEC cleaned at the beginning of each shift, between compounding activities, at least every 30 minutes while compounding and after spills or suspected surface contamination?	Acceptable	Unacceptable	Insufficient Information	Comments
11. Does the cleaning of the ISO 5 PEC include cleaning with sterile water and sanitizing with sterile 70% IPA using a non-linting wipe?	Acceptable	Unacceptable	Insufficient Information	Comments

12. Does daily cleaning and sanitizing include counters and	Acceptable	Unacceptable	Insufficient Information	Comments
easily cleanable work surfaces?				
13. Does daily cleaning include the floors starting from the clean room and working outwards? Floor cleaning is not to occur during compounding.	Acceptable	Unacceptable	Insufficient Information	Comments
14. Are fatigue mats used?	Yes No			
14a. If fatigue mats are used, is there documentation showing that they are appropriate for use?	Acceptable	Unacceptable	Comments	
14c. If fatigue mats are used, is there an SOP specific to cleaning and drying the mats?	Acceptable	Unacceptable	Comments	
15. Is a tacky mat used?	Yes No			
15a. If a tacky mat is used, is there an SOP regarding the frequency it is changed or replaced?	Acceptable	Unacceptable	Comments	
15b. If a tacky mat is used, is is appropriately located?	Acceptable	Unacceptable	Comments	
16. Are the ceilings, walls, all shelving, bins, carts, chairs, and the tops and sides of the primary engineering controls (PECs) thoroughly cleaned monthly?	Acceptable	Unacceptable	Insufficient Information	Comments
17. Is enough time allocated for cleaning activities?	Acceptable	Unacceptable	Comments	
I. Compounding Equipment				
Is appropriate equipment available and in good working order including equipment for handling hazardous materials? View maintenance and calibration logs.	Acceptable	Unacceptable	Insufficient Information	Comments
2. Are scales, balances, and other equipment used for measuring or weighing calibrated at least annually?	Acceptable	Unacceptable	Comments	
3. Are any Automated Compounding Devices (ACDs) used?	Yes No			
3a. Are there SOP for the use, daily calibration and maintenance of the ACD?	Acceptable	Unacceptable		
3b. Is there documentation of the ACD tubing being changed every 24 hours?	Acceptable	Unacceptable		

3c. Is the ACD used when performing media fill testing?	Acceptable	Unacceptable	
4. If compounding with non-sterile APIs, does the pharmacy have appropriate equipment to sterilize the finished product? List sterilizing equipment used in notes (filters, autoclave, etc.).	Acceptable	Unacceptable	Insufficient Information
5. Does the pharmacy have a lyophilizer?	Yes No		
5a. If so, note the volume or percent of products per week produced using the lyophilizer			
5b. Is the lyophilizer is part of the viable air and surface sampling, media fill testing procedures, and cleaning schedules and procedures.	Acceptable	Unacceptable	
J. Compounding Procedure			
1. Are all procedures performed in a manner designed to minimize the risk of touch contamination?	Acceptable	Unacceptable	Comments
2. Are gloves and critical sites sanitized with adequate frequency and with an approved disinfectant, such as sterile 70% isopropyl alcohol (IPA) spray and a nonlinting wipe?	Acceptable	Unacceptable	Comments
3. Are objects that shed particles prohibited?	Acceptable	Unacceptable	Comments
4. Are supplies properly decontaminated prior to introduction to the ISO classified area?	Acceptable	Unacceptable	Comments
5. Are compounding employees using appropriate aseptic technique?	Acceptable	Unacceptable	Comments
6. Are supplies stored on the appropriately in the ISO classified area?	Acceptable	Unacceptable	Comments
7. Is there a pre-compounding check or ingredients by the compounding personnel?	Acceptable	Unacceptable	Comments
8. Are appropriate sanitization processes followed for vials and ampules prior to use?	Acceptable	Unacceptable	Comments

9. Is every CSP visually inspected for thorough mixing and for the presence of particulate matter, evidence of incompatibility, or other issues?	Acceptable	Unacceptable	Comments		
10. Are opened or needle punctured single-dose containers (bags, bottles, syringes, or vials) that are opened or punctured in worse than ISO Class 5 air used within one (1) hour and the remaining contents discarded?	Acceptable	Unacceptable	Comments		
10a. How are <u>single-dose</u> opened/punctured in worse than ISO Class 5 air identified for expiration?	Acceptable	Unacceptable	Comments		
11. Are single-dose vials exposed to ISO Class 5 or cleaner air used within six (6) hours of the initial puncture and any remaining contents discarded?	Acceptable	Unacceptable	Comments		
11a. How are <u>single-dose</u> opened/ punctured in ISO Class 5 air or cleaner identified for expiration?	Acceptable	Unacceptable	Comments		
12. Are the remaining contents of opened single-dose ampules discarded immediately?	Yes No		Comments		
13. Are multiple-dose vials assigned a BUD of 28 days or the manufacturer's specific BUD (whichever is less) after the initial entry or puncture?	Acceptable	Unacceptable	Comments		
13a. How are <u>multi-dose</u> vials opened/punctured identified for expiration?	Acceptable	Unacceptable	Comments		
14. Is the compounding record complete?	Official or assigned name, strength and dosage form of the preparation Names, lot numbers and expiration dates of all components Total quantity or number of units compounded Person compounding the preparation Person performing the quality control procedures Person who approved the preparation Date of compounding Assigned internal identification number or prescription number Assigned BUD and reference if extended beyond USP guidelines Duplicate label Sterilization method (if applicable) Indication of the quality control procedures to perform (testing, filter integrity, etc.) and results of the testing, quality control issues, and investigation/recall if appropriate.				
15. Is there an SOP for in-process checks performed by a pharmacist and is the procedure followed?	Acceptable	Unacceptable	Comments		

16. Do labels on PATIENT- SPECIFIC containers, in addition to standard label requirements, also include identifiers for the persons preparing and performing the final verification and appropriate packaging and labeling of hazardous materials?	Acceptable	Unacceptable	Commen	ıts		
17. Do any of the finished products inspected show any evidence of particulates?	Acceptable	Unacceptable	Commen	ts		
18. Are BUDs greater than 24 hours documented with justification based on USP guidelines, testing or literature?	Acceptable	Unacceptable	Commen	ats		
19. Are BUDs assigned that are longer than the USP Chapter 797 guidelines?	Low Risk > 48 hours Low Risk > 14 days Low Risk > 45 days Medium Risk > 30 h Medium Risk > 9 da Medium Risk > 45 d High Risk > 24 hours High Risk > 3 days High Risk > 45 days	refrigerated frozen nours room temp ays refrigerated days frozen rs room temp refrigerated	Comment	s		
19a. Is there adequate documentation to support the extended BUDs in questions 19	Acceptable	Unacceptable 1	N/A	Comments		
Compounding Procedure - High Risk	(
20. Are appropriate sterilization methods used and documented? Ensure P&Ps in place that address determining the appropriate type of sterilization method, equipment to be used, documentation to be kept and testing to be performed.	Acceptable	Unacceptable	;	Insufficient Information	Comments	
21. Does the pharmacy use non- sterile empty vials and vial stoppers or closures and terminally sterilize them with on on-site autoclave?	Acceptable	Unacceptable	;	Insufficient Information	N/A	Comments
22. Filter Sterilization Is there documentation that:	Filtering is complete Confirmation of filte Single use filters are	ed rapidly without filter re r integrity (bubble testing	eplacement g) is performed	to sterilize CSP solutions is che for each filter used with each	, , , ,	·

23. <u>Steam sterilization</u> Is there documentation that:	Ensures live stea Solutions are pas Heated filtered ai That the CSP wil	The autoclave has been validated for the exposure time and mass of the items to be sterilized Ensures live steam contacts all ingredients and surfaces to be sterilized by load patter validation documetation Solutions are passed through a 1.2 micron or smaller filter into the final containers to remove particulates before sterilization Heated filtered air is evenly distributed throughout the chamber with a blower That the CSP will not be adversely affected by the steam and heat The description of steam sterilization includes conditions and duration for specific CSPs						
24. Dry heat sterilization Is there documentation that:	Sufficient space in The description of That the effective	Dry heat is only used for those items that cannot be sterilized by steam or would be damaged by moisture Sufficient space is left between materials to allow for air circulation The description of dry heat sterilization includes conditions and duration for specific CSPs That the effectiveness of steam sterilization is verified each time using appropriate biological indicators Oven is equipped with a system for controlling temperature and exposure period						
25. <u>Depyrogenation by dry heat</u> Is there documentation that:	The description of the effectiveness	Dry heat depyrogenation is used to render glassware and containers (such as vials) free from pyrogens as well as viable microbes The description of the cycle and duration for specific load items The effectiveness of the cycle is verified using endotoxin challenge vials (ECVs) Bacterial endotoxin testing is performed on the ECVs to verify the cycle is capable of achieving a three log reduction in endotoxins						
Finished Preparation Release Chec	ks and Tests							
26. Is there a process in place to sample prepared products for potency and/or contamination? and recall actions to take if discrepancies are found? For suspensions, is the particle size measured?	Acceptable	Unacceptable	Comments					
26a. Is there a process for recall actions should the prepared products fail specifications in question 26?	Acceptable	Unacceptable	Comments					
26b. Is the particle size for suspension within specification?	Acceptable	Unacceptable	Comments					
27. Are products checked for particulates or other foreign matter against both a light and a dark colored background?	Acceptable	Unacceptable	Comments					
28. Are there checks for container and closure integrity?	Acceptable	Unacceptable	Comments					
29. Is compounding accuracy documented by verification of steps?	Acceptable	Unacceptable	Comments					
30. Are ingredient identity and quantity verified?	Acceptable	Unacceptable	Comments					
30a. Is there a reconciliation of components?	Acceptable	Unacceptable	Comments					
31. Are labels verified as being correct?	Acceptable	Unacceptable	Comments					
31a. Is a copy of the label included in the record?	Acceptable	Unacceptable	Comments					

32. Is sterility testing performed for each batch of CSPs that have extended BUDS, are prepared in batches of more than 25 identical containers, or are exposed longer than 12 hours at 2°C-8°C or longer than six hours at warmer than 8°C before being sterilized?	Acceptable	Unacceptable	Comments	
33. Are the appropriate quantities of ur	nits for each ba	tch tested? (View records to conf	irm appropriate numbe	nber tested. View records of products failing tests including investigation and action taken.)
a. For small volumen parenterals	100 up to 50	00, test 10% or four units, whiche 10, test 10 units 00, test 2% or 20 units, whicheve	•	Comments
b. For large volume parenterals:2% or 10 containers, whichever is less.	2% or 10 co	ntainers, whichever is less	Comments	
c For non-parenterals (eye drops, inhalation, etc.	200 or more	00 containers, test 5% or 2 containers, test 10 containers re packaged in unit doses, refer	-	greater
34. Are items dispensed or distributed prior to sterility testing completion?	Yes N	lo Comments		
34a. If yes, is there a SOP requiring daily observation of media?	Yes N	lo Comments		
34b. Is there a SOP for immediate recall upon evidence of growth?	Yes N	lo Comments		
34c. Is there a SOP for notifying prescribing practitioners and patients for potential risk related to a contaminated CSP?	Yes N	lo Comments		
35. Are all high-risk level CSPs for administration by injection prepared in groups of more than 25 single-dose packages (such as ampules, bags, syringes, vials), or in multiple dose vials for administration to multiple patients, or exposed longer than 12 hours at 2°C-8°C (25°F-46°F) or longer than six (6) hours at warmer than 8°C (46°F) before they are sterilized tested to ensure that they do not contain excessive bacterial endotoxins? View results of testing and indicate number or percentage of units tested.	Acceptable	Unacceptable	Comments	
36. Are products tested for purity and potency?36a. How are the products selected for testing?	Yes N	lo		

37. Have products that failed sterility, endotoxin, purity or potency testing been dispensed or distributed and not recalled?	Yes	No	Comments			
37a. How are 'inconclusive' results handled?						
38. Does the pharmacy have its own lab to perform testing?	Yes	No				
38a. If so, what testing is performed in house?						
39. Does the pharmacy send samples to an outside lab to perform testing?	Yes	No				
39a. If so, provide the name of the lab performing testing for the pharmacy and what testing is performed.						
K. Training						
1. Is there documentation that all compounding personnel have passed an initial and subsequent annual written exams for quality assurance procedures for the appropriate risk level and including hazardous drugs?	Acceptab	le	Unacceptable	Insufficient Information	Comments	
2. Is there documentation that all compounding personnel have passed an initial and subsequent annual competency assessments of aseptic compounding skills including handling hazardous drugs?	Acceptab	le	Unacceptable	Insufficient Information	Comments	
3. Are pharmacists and technicians performing compounding using hazardous drugs appropriately trained in the safe handling, garbing, cleaning, and disinfection procedures and waste disposal of hazardous drugs and materials?	Acceptab	le	Unacceptable	Insufficient Information	Comments	
4. Does training include operation of any equipment that may be used when preparing compounded sterile products?	Acceptab	le	Unacceptable	Insufficient Information	Comments	
5. Does the pharmacy use relief personnel from outside agencies to perform sterile compounding?	Yes	No				
5a. How are training and certifications verified?	Acceptab	le	Unacceptable	Insufficient Information	Comments	

L. Environmental Monitoring

Have all cleanrooms, laminar airflow workbenches, BSCs, CAIs, CACIs, and barrier isolators been certified?	Acceptable	Unacceptable	Comments	
2. Does the pharmacy have an ISO Class 5 shielded laminar workflow area built in to the room?	Acceptable	Unacceptable	N/A	Comments
3. Is certification performed at least every six months and whenever a device or room is moved or major work is done to the space?	Acceptable	Unacceptable	Comments	
4. Are certification reports available?	Acceptable	Unacceptable	Comments	
4a. Note the date(s) of certification failures and obtain copies of the action plans for each failure.				
5. Is the person/parties responsible for overseeing the certification reports familiar with what testing is required and interpretation of results, have action levels have been identified, and are these further customized based on trended data of performance? (List responsible person/parties)	Acceptable	Unacceptable	Comments	
6. Is certification to the Controlled Environment Testing Association (CETA) standard (USP: CETA CAG-003-2006-11 Certification Guide for Sterile Compounding Facilities) and is it noted on the report? If not, indicate the standards used as indicated on the report. (Environmental monitoring to CETA CAG-009-00 Viable Environmental Sampling and Gowning Evaluation may also be listed)	Acceptable	Unacceptable	Comments	
7. Is the equipment used by the certifier calibrated and is the calibration in date?	Acceptable	Unacceptable	Comments	
8. Does each test on the certification report have a clear indication of pass or fail?	Acceptable	Unacceptable	Comments	
9. Are the HEPA filtered air changes per hour (ACPH) measured for the compounding rooms?	Acceptable	Unacceptable	Comments	
10. Is the ISO Class 7 non- hazardous sterile compounding room certified as having a minimum of 30 ACPH with at least 15 ACPH from outside air sources?	Acceptable	Unacceptable	Comments	

11. Is the ISO class 7 ante-room certified as having a minimum of 30 ACPH?	Acceptable	Unacceptable	Comments	
12. Are the ISO class 8 ante-room ACPH measured? A minimum of 20 ACPH is commonly referred to by the FDA and others.	Acceptable	Unacceptable	N/A	Comments
13. Is the ISO class 7 hazardous sterile compounding room certified as having a minimum of 30 ACPH?	Acceptable	Unacceptable	Comments	
14. If a CACI is used, is the room in which it is located certified to maintain a minimum of 12 ACPH?	Acceptable	Unacceptable	Comments	
15. Was air pattern analysis using smoke testing performed?	Acceptable	Unacceptable	Comments	
15a. is the smoke flow described in the report for the various tests such as turbulent, sluggish, smooth, etc.?	Acceptable	Unacceptable	Comments	
16. Was air pattern analysis conducted at the critical area (direct compounding area inside the ISO Class 5 PEC) to demonstrate unidirectional airflow and sweeping action over and away from the product under dynamic conditions?	Acceptable	Unacceptable	Comments	
17. Was air pattern analysis conducted to confirm positive pressure (and negative pressure into hazardous compounding rooms) at all points around all openings, doorways, and pass-throughs?	Acceptable	Unacceptable	Comments	
18. Was air pattern analysis conducted around particle generating equipment while the equipment was in operation to confirm air flow?	Acceptable	Unacceptable	Comments	
19. Was differential pressure or displacement airflow measured?	Acceptable	Unacceptable	N/A	Comments
20. Was the differential pressure measured to be at least 0.02 water column positive from the cleanroom to the ante-room and between the ante-room and all adjacent spaces with the doors closed?	Acceptable	Unacceptable	Comments	

21. Was the displacement airflow (for low and medium-risk non-hazardous rooms only) measured at a minimum differential velocity of 40 feet per minute from the cleanroom to the ante-room. Note that it is very important to maintain this velocity across the entire opening and the report should indicate multiple points of measure across all openings.	Acceptable	e	Unacceptable	N/A
22. Were particle counts measured? Greater than or equal to 0.5 mm.	Acceptable	е	Unacceptable	Comments
23. Were all particle counts taken during dynamic conditions as noted on certification reports?	Acceptable	е	Unacceptable	Comments
24. Are ISO Class 5 areas and hoods certified as having less than 3,520 particles per cubic meter of air?	Acceptable	e	Unacceptable	Comments
25. Are ISO Class 7 areas certified as having less than 352,000 particles per cubic meter of air?	Acceptable	е	Unacceptable	Comments
26. Are ISO Class 8 areas certified as having less than 3,520,000 particles per cubic meter of air?	Acceptable	е	Unacceptable	Comments
27. Was HEPA filter testing performed?	Acceptable	е	Unacceptable	Comments
27a. List the number of HEPA filters				
28. Were all room HEPA filters leak tested?	Acceptable	е	Unacceptable	Comments
28a. If leaks were identified were they repaired?	Acceptable	е	Unacceptable	Comments
28b. Was a smoke study performed in front of the repaired area?	Yes	No		Comments
29. Were viable air and surface sampling tests conducted?	Acceptable	е	Unacceptable	Comments
30. Is appropriate growth media used that supports both bacterial and fungal growth? List media used in note.	Acceptable	е	Unacceptable	Comments
31. Was viable air sampling by active impaction using a volumetric air sampling device? NOTE: Passive air sampling is not compliant with USP Chapter <797>.	Acceptable	e	Unacceptable	Comments

Comments

32. Was each air sample taken in the ISO areas/PECs at least 1000 liters in volume? If no, statistical analysis must be performed.	Acceptable	Unacceptable	Comments
33. Was viable surface sampling performed on all direct compounding areas (inside of ISO 5 rooms or hoods), in each room, inside any pass-throughs, and on surfaces likely to be contaminated due to position relative to doorways, etc., performed?	Acceptable	Unacceptable	Comments
34. Did any of the viable samples exceed the USP recommended microbial action levels (or internal action levels if more restrictive)? Note: CFUs are TOTAL of bacterial plus fungal/mold plates.	Acceptable	Unacceptable	Comments
35. Were all CFUs detected analyzed to determine the organism down to the genus? All CFUs detected must be identified even if the number of CFUs does not exceed an action level.	Acceptable	Unacceptable	Comments
36. Were any mold, yeast, coagulase positive staphylococcus, or gram negative rods detected?	Acceptable	Unacceptable	Comments
36a. If yes, was immediate remediation performed and was the root cause investigation conducted?	Acceptable	Unacceptable	Comments
37. Did the testing report indicate that it included growth promotion testing and sterility quality control testing of the media plates? Positive and negative control tests important to validate results of viable testing.	Acceptable	Unacceptable	Comments
38. Did the testing results report include media lot numbers and expiration dates and a signature of the laboratory analyst and/or reviewer?	Acceptable	Unacceptable	Comments