

Kentucky Board of Pharmacy State Office Building Annex, Ste 300 125 Holmes Street Frankfort, KY 40601 Phone: (502) 564-7910 Fax: (502) 696-3806

USP <825> Radiopharmaceuticals – Preparation, Compounding, Dispensing, and Repackaging

Pharmacy:	Permit:	Inspection Date:
Address:	City:	State:

List of other states pharmacy permitted by:

1.	6.
2.	7.
3.	8.
4.	9.
5.	10.

Document any waivers under 201 KAR 2:076 Section 2:

Designated Person(s):

Policies and Procedures/Standard Operating Procedures (SOP)	Compliant	Non- Compliant	N/A	Not Inspected
Purchase, receipt, storage, manipulation, compounding, distribution and disposal of		Compliant		Inspecteu
radioactive materials. 201 KAR 2:215 Section 2 (3)				
Personnel training and testing. USP <825> 4. Personnel Qualifications, Training,				
and Hygiene and 9. Documentation				
Garbing and hand hygiene. USP <825> 4.1 Aseptic Qualifications; and 4.5 Hand				
Hygiene and Garbing for Buffer Areas and SRPA				
Cleaning and disinfecting. USP <825> 4.2 Reevaluation, Retraining, and				
Requalification and 7. Cleaning and Disinfecting				
Monitoring for radioactive contamination and decontamination of those surfaces.				
USP <825> 7.2 Cleaning Supplies and 7.3 Cleaning and Disinfecting the PEC				
Handling and manipulation of blood-derived or other biological material and				
biohazardous radioactive sharps to avoid contamination. USP <825> 2.4 Radiation				
Contamination Control, 5.5 Classified Areas, 7.6 Cleaning and Disinfecting Items				
from Patient Care Area and 10.3 Preparation of Radiolabeled Blood Components				
Testing and monitoring of environmental controls. USP <825> 5.1 Facility Design				
and Environmental Controls and 9. Documentation				
Environmental monitoring: Viable air and surface sampling. $USP < 825 > 6$.				
Microbiological Air and Surface Monitoring and 9. Documentation				
Equipment maintenance. USP <825> 9. Documentation				
Assignment of BUD USP <825>8. Assigning BUD				
End product radiochemical purity and other testing, as applicable. USP <825> 9.				
Documentation				
Master Formulation Record (MFR). USP <825> 9. Documentation				
Quality assurance and quality control programs. USP <825> 9. Documentation				
and 14. Quality Assurance and Quality Control				
Dispensing prior to results of release testing. USP <825> 14.1 Notification About				
and Recall of Out-of-Specification Dispensed Radiopharmaceuticals				

People Complaints and Adverse Events USP < 825> 8 Assigning RUD 141				
Notification About and Pacall of Out of Specification Dispansed				
Redigication About and Recail of Out-of-Specification Dispensed				
Radiopharmaceuticais, 14.2 Complaint Handling, and 14.5 Adverse Event				
Deligion and Proceedures reviewed and reviewed annually 201 KAP 2:076 Section 1				
Policies and Procedures reviewed and revised annually. 201 KAR 2.0/0 Section 1				
(5) Commontes				
Comments:				
Nonstavila Dadianharmaaautiaala	Compliant	Non	NI/A	Not
Nonsterne Raulophar maceuticais	Compliant	Compliant	$1 \sqrt{A}$	Inspected
Personnel trained per facility policy USP <825> 1 Personnel Qualifications		Compnant		Inspecteu
Training and Hygiana				
Dersonnel carbod per facility policy USD < 825 1 Dersonnel Qualifications				
Training and Hydiana				
Nonsterile processing area has appropriate environmental controls, if applicable:				
Nonsterine processing area has appropriate environmental controls, il applicable.				
• Regarive an pressure area				
• Chemical lume hood				
• Activated charcoal filters				
USP <825> 10.1 Preparation Following Manufacturer Instructions, 11.1				
Compounding Nonsterile Radiopharmaceuticals, 12.1 Dispensing and Radioassay,				
and 13. Repackaging				
Nonsterile processing area is clean and uncluttered. $USP < 825 > 10.1$ Preparation				
Following Manufacturer Instructions, 11.1 Compounding Nonsterile				
Raalopharmaceuticals, 12.1 Dispensing and Raaloassay, and 13. Repackaging				
Nonsterile processing area is separate from sterile processing area. USP <825>				
10.1 Preparation Following Manufacturer Instructions, 11.1 Compounding				
Nonsterile Radiopharmaceuticals, 12.1 Dispensing and Radioassay, and 13.				
Repackaging				
Documented process for cleaning nonsterile processing area between preparation				
cycles of different nonsterile products. USP <825> 10.1 Preparation Following				
Manujacturer Instructions, 11.1 Compounding Nonstertie Radiopharmaceuticais,				
12.1 Dispensing and Radioassay, and 13. Repackaging				
Documented master formulation record and preparation record for all compounded				
preparations of preparations with minor deviations. $USP < 825 > 9.1$ Master				
Formulation Record and 9.2 Records for Preparation with Minor				
Deviations/Compounding				
Master formulation record documents.				
• Name of the radiopharmaceutical				
• Name, identity, strength, purity, and quantity of ingredients				
• Detailed procedure				
• Range of radioactivity and range of volume				
• Equipment to be used including PEC or SEC, if applicable				
• Required quality control tests				
• I raised personnel and required garbing if different from SOP				
• Container				
• Reference for BUD assignment and storage conditions				
USP <825> 9.1 Master Formulation Record				
Preparation record for preparations with minor deviations or compounded				
preparations documents:				
• Name of the radiopharmaceutical				
Physical form or dosage form				
• Name and quantity of ingredients including calibration time for				
radioactive ingredients				
Total volume				

 Reference to MFR and any deviations from MFR 				
• Name of manufacturer/vendor, lot numbers and expiration dates				
of all ingredients and components				
• Name of compounder and verifying/supervising pharmacist				
• Date and time of preparation				
 Assigned lot number and/or prescription/order number 				
Assigned for number and/or presemption/order number				
• BOD and storage requirements				
• Quality control results				
USP <825> 9.2 Records for Preparations with Minor Deviations/Compounding				
Nonsterile radiopharmaceuticals appropriately radioassayed. $USP < 825 > 12.1$				
Dispensing and Radioassay				
Inner container appropriately labeled with:				
Standard radiation symbol				
 "Caution-Radioactive Material" 				
 Patient name/identifier for all therapeutic products 				
Radionuclide and chemical form				
 Radioactivity at the date and time of calibration 				
USP <825> 12.2 Labeling				
Outer container/shielding appropriately labeled with:				
Standard radiation symbol				
"Caution-Radioactive Material"				
Detiont nome/identifien for all therementic meduate				
• Patient name/identifier for an inerapeutic products				
Radionuclide and chemical form				
• Radioactivity at the date and time of calibration				
• Volume or number of units dispensed				
• Product expiration or BUD and any special storage and handling				
instructions				
Route of administration				
USP <825> 12.2 Labeling				
USP <825> 12.2 Labeling Comments:				
USP <825> 12.2 Labeling Comments:				
USP <825> 12.2 Labeling Comments:				
USP <825> 12.2 Labeling Comments:				
USP <825> 12.2 Labeling Comments:				
USP <825> 12.2 Labeling Comments:				
USP <825> 12.2 Labeling Comments: Sterile Training: For those facilities not performing sterile compounding from	Compliant	Non-	N/A	Not
USP <825> 12.2 Labeling Comments: Sterile Training: For those facilities not performing sterile compounding from nonsterile drug substances or components.	Compliant	Non- Compliant	N/A	Not Inspected
USP <825> 12.2 Labeling Comments: Sterile Training: For those facilities not performing sterile compounding from nonsterile drug substances or components. Documentation all applicable personnel passed initial and annual written exam	Compliant	Non- Compliant	N/A	Not Inspected
USP <825> 12.2 Labeling Comments: Sterile Training: For those facilities not performing sterile compounding from nonsterile drug substances or components. Documentation all applicable personnel passed initial and annual written exam including:	Compliant	Non- Compliant	N/A	Not Inspected
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USP <825> 12.2 Labeling Comments: Sterile Training: For those facilities not performing sterile compounding from nonsterile drug substances or components. Documentation all applicable personnel passed initial and annual written exam including: Cleaning and disinfecting; Hand hygiene and garbing: and	Compliant	Non- Compliant	N/A	Not Inspected
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growth. Includes ancillary, non-compounding personnel, if applicable. USP <825>	
4.1 Aseptic Qualifications and 4.2 Reevaluation, Retraining, and Requalification	
Observed and appropriately documented annual gloved fingertip and thumb	
samplings, performed after media fill, with \leq 3 total CFUs. USP <825> 4.1 Aseptic	
Qualifications and 4.2 Reevaluation, Retraining, and Requalification	
Observed and appropriately documented initial and annual media fill test	
simulating the most challenging and stressful work conditions. USP <825> 4.1	
Aseptic Qualifications and 4.2 Reevaluation, Retraining, and Requalification	
Observations performed by designated person(s). USP <825> 4.1 Aseptic	
Qualifications	
Documentation of retraining, reevaluation and retesting of personnel who fail any	
testing or qualifications. USP <825> 4.2 Reevaluation, Retraining, and	
Requalification	
Personnel that have not performed sterile radiopharmaceutical processing for more	
than 6 months are requalified prior to resuming duties. $USP < 825 > 4.2$	
Reevaluation, Retraining, and Requalification	

Comments:

Garbing in Buffer Areas and Segregated Radiopharmaceutical Processing	Compliant	Non-	N/A	Not
Area (SRPA)		Compliant		Inspected
Personnel remove outer garments, make-up, all hand, wrist and other exposed				
jewelry including piercings that can interfere with effectiveness of garbing.				
Radiation dosimetry devices are allowed. USP <825> 4.5 Hand Hygiene and				
Garbing for Buffer Areas and Segregated Radiopharmaceutical Processing Area				
Personnel keep nails natural and short. USP <825> 4.5 Hand Hygiene and				
Garbing for Buffer Areas and Segregated Radiopharmaceutical Processing Area				
Personnel report conditions that may pose a higher potential of contaminating				
environment with microorganisms (e.g. rashes, sunburn, recent tattoos, oozing				
sores, conjunctivitis, or active respiratory infection) and designated person				
evaluates whether individual may enter buffer area or SRPA. USP <825> 4.				
Personnel Qualifications, Training, and Hygiene				
Garb with shoe covers, head/hair/facial hair covers and facemask in order per				
facility SOPs and to minimize risk of contamination. USP <825> 4.5 Hand				
Hygiene and Garbing for Buffer Areas and Segregated Radiopharmaceutical				
Processing Area				
Performs hand hygiene appropriately up to the elbows for 30 seconds and under				
nails. USP <825> 4.5 Hand Hygiene and Garbing for Buffer Areas and Segregated				
Radiopharmaceutical Processing Area				
Use appropriate alcohol-based hand rub. USP <825> 4.5 Hand Hygiene and				
Garbing for Buffer Areas and Segregated Radiopharmaceutical Processing Area				
Sterile gloves donned appropriately. USP <825> 4.5 Hand Hygiene and Garbing				
for Buffer Areas and Segregated Radiopharmaceutical Processing Area				
Dispose of disposable gowns when leaving buffer area or SRPA or may re-use				
gown for one shift if maintained properly. Disposable gowns preferred, if re-usable				
gowns used - clean gown must be donned daily. USP <825> 4.5 Hand Hygiene				
and Garbing for Buffer Areas and Segregated Radiopharmaceutical Processing				
Area				
Non-garbed personnel are not entering buffer area or SRPA. USP <825> 4.				
Personnel Qualifications, Training, and Hygiene				
Comments				

Comments:

Ante and Buffer Areas	Compliant	Non-	N/A	Not
		Compliant		Inspected
Floor is smooth, impervious, free from cracks and crevices, non-shedding and				
sealed and coved where it meets the walls. USP <825> 5.2 Creating Areas to				
Achieve Easily Cleanable Conditions				
Ceilings are smooth, impervious, free from cracks and crevices, non-shedding and				
sealed where it meets the walls. Ceiling tiles are caulked or otherwise sealed to				
support frame. USP <825> 5.2 Creating Areas to Achieve Easily Cleanable				
W-lls and sentences d of an account with a double material (i.e. an array a sint)				
wans are constructed of or covered with a durable material (i.e. epoxy paint).				
smooth, impervious, nee from cracks and crevices, non-shedding and seared. USP				
Accessories and furniture are assily cleanable smooth impervious free from				
cracks and crewices, and non-shedding. Limited to necessary equipment in ante and				
buffer areas $IISP < 825 > 5.2$ Creating Areas to Achieve Easily Cleanable				
Conditions and 5 4 Placement and Movement of Materials				
Sink appropriately located <i>USP</i> < 825> 5.3 <i>Water</i> Sources				
Shik uppropriately focated. OST 30257 5.5 Water Sources				
Buffer area has no sink, drain, or water source. USP <825> 5.3 Water Sources				
Temperature recorded doily. Ante and huffer area temperature maintained at 25 C				
r cooler USP <825 5.1 Eagility Design and Environmental Controls and 5.7				
Empironmental Controls				
Environmental Controls				
temperature per USP ≤ 650 generally 68, 77 E or 20, 25 C USP ≤ 825 5.7				
Environmental Controls				
Drugs stored at appropriate controlled storage temperatures: Controlled cold				
temperature per USP <659> generally 36-46 F or 2-8 C USP <825> 5 7				
Environmental Controls				
Drugs stored at appropriate controlled storage temperatures: Freezer temperature				
per USP <659>, generally -13 to 14 F or -25 to -10 C. USP <825> 5.7				
Environmental Controls				
Humidity recorded daily. Relative humidity should be maintained below 60%.				
USP <825> 5.7 Environmental Controls				
Temperature and humidity monitoring devices verified for accuracy every 12				
months or as required by manufacturer. USP <825> 5.1 Facility Design and				
Environmental Controls and 5.7 Environmental Controls				
Pressure is record daily. USP <825> 5.7 Environmental Controls				
Buffer room is positive pressure of at least 0.02-inch water column to ante room. USP < 825 > 5.7 Environmental Controls				
Ante room is positive pressure of at least 0.02-inch water column to unclassified				
portions of the restricted area. USP <825> Environmental Controls				
Restricted area is negative pressure compared to unrestricted area, if applicable per				
RAM license (i.e. volatile or airborne radiopharmaceuticals: I-131 or Xenon). USP				
<825> 5.7 Environmental Control				
No tacky surfaces or mats inside ISO classified areas. USP <825> 5.1 Facility				
Design and Environmental Controls				
Proper use of line of demarcation. USP <825> 5.1 Facility Design and				
Environmental Controls				
Comments:				
Segregated Radiopharmaceutical Processing Area (SRPA)	Compliant	Non-	N/A	Not
		Compliant		Inspected

All surfaces (e.g., walls, floors, counters, equipment) clean, uncluttered and dedicated to sterile processing activities. USP <825> 5.2 Creating Areas to Achieve Fasily Cleanable Conditions				
All surfaces (e.g., walls, floors, counters, equipment) smooth, impervious, free from cracks and crevices, and non-shedding. USP <825> Creating Areas to				
Accessories and furniture are easily cleanable, smooth, impervious, free from cracks and crevices, and non-shedding. Limited to necessary equipment in SRPA. USP <825> 5.2 Creating Areas to Achieve Easily Cleanable Conditions and 5.4 Placement and Movement of Materials				
Sink appropriately located. USP <825> 5.3 Water Sources				
Temperature recorded daily. SRPA temperature maintained at 25 C or cooler. USP <825> 5.1. Facility Design and Environmental Controls and 5.7 Environmental Controls				
Drugs stored at appropriate controlled storage temperatures: Controlled room temperature per USP <659>, generally 68-77 F or 20-25 C. <i>USP</i> <825> 5.7 <i>Environmental Controls</i>				
Drugs stored at appropriate controlled storage temperatures: Controlled cold temperature per USP <659>, generally 36-46 F or 2-8 C. <i>USP <825> 5.7 Environmental Controls</i>				
Drugs stored at appropriate controlled storage temperatures: Freezer temperature per USP <659>, generally -13 to 14 F or -25 to -10 C. <i>USP</i> <825> 5.7 <i>Environmental Controls</i>				
Humidity recorded daily. Relative humidity should be maintained below 60%. USP <825> 5.7 Environmental Controls				
Temperature and humidity monitoring devices verified for accuracy every 12 months or as required by manufacturer. USP <825> 5.1 Facility Design and Environmental Controls and 5.7 Environmental Controls				
Restricted area is negative pressure compared to unrestricted area, if applicable per RAM license (i.e. volatile or airborne radiopharmaceuticals: I-131 or Xenon). USP <825> 5.7 Environmental Control				
Non-direct infusion radionuclide generators stored and eluted in area that meets ISO Class 8 particle count classification. USP <825> 5.7 Environmental Controls				
Comments:				
Cleaning: Sterile Processing Areas	Compliant	Non- Compliant	N/A	Not Inspected
Personnel appropriately garbed when cleaning. USP <825> 7. Cleaning and Disinfecting				
Cleaning and disinfecting agent (may be EPA registered one-step disinfectant cleaner) appropriate for bacteria, fungi and viruses. USP <825> 7. Cleaning and Disinfecting				
Cleaning equipment is low-linting, disposable or dedicated. Reusable cleaning equipment cleaned and disinfected before and after each use. USP <825> 7.2 Cleaning Supplies				
Daily cleaning and disinfecting of Ante and Buffer area or SRPA including work surfaces, sink and floors. <i>USP</i> <825> 7. <i>Cleaning and Disinfecting</i>			-	
Daily cleaning and disinfecting of hot-cell. USP <825> 7. Cleaning and Disinfecting				
Daily cleaning and disinfecting of hot-cell. USP <825> 7. Cleaning andDisinfectingDaily cleaning and disinfecting of ISO 5 PEC and all equipment within PEC. USP<825> 7. Cleaning and Disinfecting				
Daily cleaning and disinfecting of hot-cell. USP <825> 7. Cleaning andDisinfectingDaily cleaning and disinfecting of ISO 5 PEC and all equipment within PEC. USP<825> 7. Cleaning and DisinfectingCleaning and disinfecting of ISO 5 PEC includes the following:				

• Removal of any particles, debris, or residue with appropriate solution (i.e.		
sterile water) and sterile, low-lint wipers.		
• Cleaning and disinfecting agent applied for specified contact time.		
• Sterile 70% IPA applied.		
• Surface allowed to dry completely before beginning activity.		
• Sporicidal agent used at least monthly.		
USP <825> 7.3 Cleaning and Disinfecting the PEC		
Monthly cleaning of ceilings, walls, and storage shelving and storage bins within		
Ante and Buffer area or SRPA. USP <825> 7. Cleaning and Disinfecting		
Monthly use of appropriate sporicidal agent on all surfaces and PEC within Ante		
and Buffer area and SRPA. USP <825> 7. Cleaning and Disinfecting		
Cleaning, disinfecting and sporicidal agents allowed to dwell based on		
manufacturer specified minimum contact time. USP <825> 7.1 Cleaning,		
Disinfecting, and Sporicidal Agents		
Radiation shielding and other equipment used in ante and buffer area, SRPA, or		
PEC exposed to patient care areas cleaned and disinfected before returning to		
processing areas. USP <825> 7.6 Cleaning and Disinfecting Items from Patient		
Care Area		
Comments:		

Environmental Monitoring and Certification of Ante and Buffer Areas	Compliant	Non-	N/A	Not
	_	Compliant		Inspected
All ISO Class 5 PECs and ISO Class 7 and/or ISO Class 8 rooms have been				
certified as required. USP <825> 5.7 Environmental Controls				
Review report from certifier.				
Certifier: Date:				
Certification performed to CETA standards or equivalent standards. USP <825>				
5.7 Environmental Controls				
Certifier's equipment calibrated to manufacturer standards. USP <825> 5.7				
Environmental Controls				
Ante room has HEPA filtered air certified to ISO Class 8 or better. $USP < 825 > 5.7$				
Environmental Controls				
Ante room has appropriate ACPH: ISO Class 8 minimum 20 ACPH, ISO Class 7				
minimum 30 ACPH. USP <825> 5.1 Facility Design and Environmental Controls				
and 5.7 Environmental Controls				
Minimum 0.02-inch water column positive pressure differential from ante room to				
unclassified portions of restricted area. USP <825> 5.7 Environmental Controls				
Buffer room has HEPA filtered air certified to ISO Class 7 or better. USP <825>				
5.7 Environmental Controls				
Buffer room has minimum 30 ACPH, 15 ACPH must be supplied by room HVAC.				
USP <825> 5.1 Facility Design and Environmental Controls and 5.7				
Environmental Controls				
Minimum 0.02-inch water column positive pressure differential from buffer room				
to ante room. USP <825> 5.7 Environmental Controls				
ISO Class 7 areas not more than 352,000 particles per cubic meter of air, taken				
under dynamic conditions. USP <825> 5.1 Facility Design and Environmental				
Controls and 5.7 Environmental Controls				
ISO Class 8 area not more than 3,520,000 particles per cubic meter of air, taken				
under dynamic conditions. USP <825> 5.1 Facility Design and Environmental				
Controls and 5.7 Environmental Controls				
Room HEPA filters leak tested and repaired if needed. $USP < 825 > 5.7$				
Environmental Controls				
PEC(s) certified to meet ISO Class 5 or better conditions. USP <825> 5.1 Facility				
Design and Environmental Controls and 5.7 Environmental Controls				

ISO Class 5 area not more than 3,520 particles per cubic meter of air, taken under		
dynamic conditions. USP <825> 5.1 Facility Design and Environmental Controls		
and 5.7 Environmental Controls		
Smake visualization study performed at least every 6 months in direct processing		
smoke visualization study performed at least every o months in direct processing		
area to demonstrate undirectional airflow under simulated or dynamic conditions.		
USP < 825 > 5.1 Facility Design and Environmental Controls and 5./		
Environmental Controls		
PEC HEPA filters leak tested and repaired if needed. USP <825> 5.7		
Environmental Controls		
PEC airflow velocity measured $USP < 825 > 5.7 Environmental Controls$		
The annow versionly measured. Obt <025× 5.7 Environmental Controls		
Radionuclide storage and elution area certified to ISO Class 8 or better. USP		
<825> 5.7 Environmental Controls and 8.Assigning BUD		
Air and surface microbial sampling performed in all classified areas under		
simulated or dynamic conditions. $USP < 825 > 6$ 1 General Monitoring		
Requirements		
Air and surface monitoring program includes documentation of:		
• Date and time of sampling;		
• Sampling locations;		
Method of collection:		
 Fraction of concertain, Encourage of compliance 		
• Frequency of sampling;		
• Size of samples (e.g., surface area, volume of air);		
• Time of day in relation to processing activities; and		
Action levels		
USP < 825> 6 Microbiological Air and Surface Monitoring		
<u>Vill</u> <u>i fill</u> <u>i fill</u> <u>i fill</u> <u>i fill</u> <u>i fill</u>		
viable air sampling of all classified areas and PECs performed at least every o		
months using active impaction device during dynamic or simulated operating		
conditions with 1000 liters of air sampled. USP <825> 6.2 Monitoring Air Quality		
for Viable Airborne Particles		
Viable air sampling performed with appropriate growth media and proper		
incubation of media to support growth of bacteria and fungi $USP < 825 > 6.2$		
Monitoring Air Quality for Viable Airborne Darticles		
Monitoring Air Quality for Viable Airborne Faricles		
Viable air microbial action levels:		
 ISO Class 5: >1 CFU 		
 ISO Class 7: >10 CFU 		
• ISO Class 8: >100 CFU		
USP < 825> 6.2 Monitoring Air Quality for Viable Airborne Particles		
Curface compliant and entered at location and he in:		
Surface sampling performed at least moninly in:		
• All classified areas, including frequently touched surfaces;		
• PEC;		
• Direct processing area and any permanent equipment in PEC:		
 Staging and work surfaces near the DEC: and 		
• Staging and work surfaces near the ribe, and		
• Pass inrough.		
USP <825> 6.3 Monitoring Surfaces for Viable Particles		
Surface sampling performed at end of activities or shift and prior to cleaning and		
disinfecting in conformance with ALARA standards. USP <825> 6.3 Monitoring		
Surfaces for Viable Particles		
Surface sampling performed with appropriate microbial growth media		
sumplemented with neutralizing additives (a.g. TSA with leaithin and nelwarkete		
suppremented with neuranzing auditives (e.g., 15A with rectain and polysofolde		
obj and media property incubated to support bacteria and rungi growth. USP		
<823> 6.3 Monitoring Surfaces for Viable Particles		
Surface sampling microbial action levels:		
• ISO Class 5: >3 CFU		
• ISO Class 7: >5 CFU		
USP <823 > 0.5 Monitoring Surfaces for Viable Particles	 	
Incubators located outside of any classified area or SRPA and temperature recorded		
daily during incubation with calibrated measuring device. $USP < 825 > 6.2$		

Monitoring Air Quality for Viable Airborne Particles and 6.3 Monitoring Surfaces				
for Viable Particles				
If action levels for either air or surface sampling exceeded, CFU to be identified to				
the genus level. USP <825> 6.2 Monitoring Air Quality for Viable Airborne				
Particles and 6.3 Monitoring Surfaces for Viable Particles				
Documented investigation and corrective action plan when air or surface sampling				
action levels exceeded to include evaluation of personnel practices, effectiveness of				
cleaning and environmental quality. USP <825> 6.1 General Monitoring				
Requirements, 6.2 Monitoring Air Quality for Viable Airborne Particles, and 6.3				
Monitoring Surfaces for Viable Particles				
Comments:		•	•	
Environmental Monitoring and Cartification of DEC (SDDA and Hat Call)	Compliant	Non	N/A	Not
Environmental Monitoring and Certification of LEC (SKI A and Hot-Cen)	Compliant	Compliant	$1 \mathbf{V} A$	Inspected
		Compliant		Inspecteu
All ISO Class 5 PECs and/or ISO Class 8 rooms been certified as required. USP				
<825> 5.7 Environmental Controls				
Review report from certifier.				
Certifier: Date:				
Certification performed to CETA standards or equivalent standards. USP <825>				
5.7 Environmental Controls				
Certifier's equipment calibrated to manufacturer standards. $USP < 825 > 5.7$				
Environmental Controls				
Radionuclide storage and elution area certified to ISO Class 8 total airborne				
particle count. USP <825> 5.7 Environmental Controls and 8.Assigning BUD				
Radionuclide storage and elution area and ISO Class 8 area not more than				
3,520,000 particles per cubic meter of air, taken under dynamic conditions. USP				
<825> 5.1 Facility Design and Environmental Controls, 5.7 Environmental				
Controls and 8. Assigning BUD				
ISO Class 8 ante/buffer room has HEPA filtered air and a minimum of 20 ACPH.				
USP <825> 5.1 Facility Design and Environmental Controls and 5.7				
Environmental Controls				
Room HEPA filters leak tested and repaired if needed. $USP < 825 > .7$				
Environmental Controls				
SRPA negative differential pressure to unrestricted area per RAM license and in				
the presence of volatile or airborne radiopharmaceutical. USP <825> 5.7				
Environmental Controls				
PEC(s) certified to meet ISO Class 5 or better conditions. USP <825> 5.1 Facility				
Design and Environmental Controls and 5.7 Environmental Controls				
ISO Class 5 area not more than 3,520 particles per cubic meter of air, taken under				
dynamic conditions. USP <825> 5.1 Facility Design and Environmental Controls				
and 5.7 Environmental Controls				
Smoke visualization study performed at least every 6 months in direct processing				
area to demonstrate unidirectional airflow under simulated or dynamic conditions.				
USP <825> 5.1 Facility Design and Environmental Controls and 5.7				

Environmental Controls

Environmental Controls

Requirements

Dynamic airflow smoke pattern tests within hot-cell shows staging of supplies and materials does not allow influx of unclassified or less than ISO Class 5 air into PEC. *USP* <825> 5.6 *Remote Aseptic Processing Involving a Hot-Cell* PEC HEPA filters leak tested and repaired if needed. *USP* <825> 5.7

PEC airflow velocity measured. USP <825> 5.7 Environmental Controls

Air and surface microbial sampling performed in all classified areas under simulated or dynamic conditions. *USP* <825> 6.1 *General Monitoring*

Air and surface mentaring measure includes desurrentation of		
Air and surface monitoring program includes documentation of:		
• Date and time of sampling;		
• Sampling locations;		
• Method of collection;		
• Frequency of sampling;		
• Size of samples (e.g., surface area, volume of air);		
 Time of day in relation to processing activities; and 		
• Action levels.		
USP <825> 6. Microbiological Air and Surface Monitoring		
Viable air sampling of all classified areas and PECs performed at least every 6		
months using active impaction device during dynamic or simulated operating		
conditions with 1000 liters of air sampled. USP <825> 6.2 Monitoring Air Quality		
for Viable Airborne Particles		
Viable air sampling performed with appropriate growth media and proper		
incubation of media to support growth of bacteria and fungi. USP <825> 6.2		
Monitoring Air Quality for Viable Airborne Particles		
Viable air microbial action levels:		
• ISO Class 5: >1 CFU		
• ISO Class 7: >10 CFU		
• ISO Class 8: >100 CFU		
USP <825> 6.2 Monitoring Air Quality for Viable Airborne Particles		
Surface sampling performed at least monthly in:		
• All classified areas, including frequently touched surfaces:		
• PEC:		
• Direct processing area and any permanent equipment in PEC:		
 Staging and work surfaces near the DEC: and 		
 Staging and work surfaces hear the LEC, and Deag through 		
 Pass infougn. USD < 225 > 6.2 Monitoring Surfaces for Viable Darticles 		
Surface campling performed at and of activities or shift and prior to alconing and		
Surface sampling performed at end of activities of shift and phot to cleaning and disinfecting in conformance with ALAPA standards $USP < 825 > 6.2$ Monitoring		
Surfaces for Viable Particles		
Surfaces someting norformed with appropriate microbial growth media		
surface sampling performed with appropriate microbial growth media		
supplemented with neutralizing additives (e.g., 1 SA with fectualin and polysorbate		
80) and media property incubated to support bacteria and rungi growth. USP		
<825 0.5 Monuoring Surfaces for Viable Particles		
Surface sampling microbial action levels:		
• ISO Class 5: >3 CFU		
• ISO Class /: >5 CFU		
• ISO Class 8: >50 CFU		
USP <825> 6.3 Monitoring Surfaces for Viable Particles		
Incubators located outside of any classified area or SRPA and temperature recorded		
daily during incubation with calibrated measuring device. $USP < 825 > 6.2$		
Monitoring Air Quality for Viable Airborne Particles and 6.3 Monitoring Surfaces		
for Viable Particles	 	
If action levels for either air or surface sampling exceeded, CFU to be identified to		
the genus level. $USP < 825 > 6.2$ Monitoring Air Quality for Viable Airborne		
Particles and 6.3 Monitoring Surfaces for Viable Particles		
Documented investigation and corrective action plan when air or surface sampling		
action levels exceeded to include evaluation of personnel practices, effectiveness of		
cleaning and environmental quality. USP <825> 6.1 General Monitoring		
Requirements, 6.2 Monitoring Air Quality for Viable Airborne Particles, and 6.3		
Monitoring Surfaces for Viable Particles		
Comments:		

Sterile Processing Procedures	Compliant	Non- Compliant	N/A	Not Inspected
No shipping cartons or other corrugated or uncoated cardboard allowed in classified areas or within SRPA. USP <825> 7.4 Disinfecting Supplies for Classified Areas and SRPAs				
Food, drinks, and materials exposed in patient care and treatment areas do not enter ante or buffer areas. USP <825> 5.5. Classified Areas				
All items are wiped with sporicidal agent, EPA-registered one-step disinfectant cleaner, or sterile 70% IPA using low-lint wipers prior to introduction into ante room or SRPA. USP <825> 7.4 Disinfecting Supplies for Classified Areas and SRPAs				
Any item transferred into the ISO 5 PEC disinfected with sterile disinfectant (sterile 70% IPA). USP <825> 7.4 Disinfecting Supplies for Classified Areas and SRPAs				
Critical sites wiped with sterile 70% IPA that is allowed to dry prior to piercing. USP <825> 7.5 Disinfecting Critical Sites				
Personnel use correct aseptic technique. USP <825> 4.5 Hand Hygiene and Garbing for Buffer Areas and Segregated Radiopharmaceutical Processing Area and 10 Preparation				
Gloves routinely checked for holes, punctures, radioactivity contamination or tears and replaced. USP <825> 4.5 Hand Hygiene and Garbing for Buffer Areas and Segregated Radiopharmaceutical Processing Area				
Gloves routinely disinfected with sIPA in line with ALARA safety standards. USP <825> 4.5 Hand Hygiene and Garbing for Buffer Areas and Segregated Radiopharmaceutical Processing Area				
Disposable, absorbent pad clean and low-lint. USP <825> 2.4 Radiation Contamination Control				
Preparations, preparations with minor deviations, and compounded radiopharmaceuticals undergo appropriate in-house quality control testing. USP <825> 10 Preparation and 11.2 Sterile Compounding				
Sterile radiopharmaceutical final doses appropriately radioassayed. USP <825> 12.1 Dispensing and Radioassay				
Documented master formulation record and preparation record for all compounded preparations or preparations with minor deviations. USP <825> 9.1 Master Formulation Record and 9.2 Records for Preparation with Minor Deviations/Compounding				
Master formulation record documents:				
 Name of the radiopharmaceutical Name, identity, strength, purity, and quantity of ingredients Detailed procedure Range of radioactivity and range of volume 				
 Equipment to be used including PEC or SEC, if applicable Required quality control tests Trained personnel and required garbing if different from SOP 				
 Container Reference for BUD assignment and storage conditions USP <825> 9.1 Master Formulation Record 				
Preparation record for preparations with minor deviations or compounded preparations documents:				
Name of the radiopharmaceuticalPhysical form or dosage form				
 Name and quantity of ingredients including calibration time for radioactive ingredients 				
 Total volume Reference to MFR and any deviations from MFR 				
 Name of manufacturer/vendor, lot numbers and expiration dates of all ingredients and components Name of compounder and verifying/supervising pharmacist 				

• Date and time of preparation				
• Assigned lot number and/or prescription/order number				
• BUD and storage requirements				
Ouality control results				
USP <825> 9.2 Records for Preparations with Minor Deviations/Compounding				
In the absence of sterility testing, radiopharmaceuticals assigned a maximum BUD				
based on preparation conditions. (see USP $< 825 > Table 7$)				
• SRPA: 12 hours				
• ISO Class 8 ante and buffer room: 24 hours				
• ISO Class 7 or 8 ante and ISO Class 7 buffer room: 96 hours				
USP < 825 > 8 Assigning BUD				
Inner container appropriately labeled with				
Standard radiation symbol				
"Caution-Radioactive Material"				
Patient name/identifier for all therapeutic products				
Padionualida and abamical form				
 Radionuclide and chemical form Dadioactivity at the data and time of colibration 				
• Radioactivity at the date and time of calibration $USD < 825 > 12.2 Labeling$				
Outer container/abiolding anneamigtaly labolad with				
Outer container/sinerding appropriatery labeled with.				
• Standard radiation symbol				
• "Caution-Radioactive Material"				
• Patient name/identifier for all therapeutic products				
Radionuclide and chemical form				
• Radioactivity at the date and time of calibration				
 Volume or number of units dispensed 				
Product expiration or BUD and any special storage and handling				
instructions				
Route of administration				
USP <825> 12.2 Labeling				
Comments:				
		.	N T (A	
Remote Aseptic Processing Involving a Hot-Cell	Compliant	Non-	N/A	Not
		Compliant		Inspected
Personnel garb according to contamination risk. USP <825> 5.6 Remote Aseptic				
Processing Involving a Hot-Cell				
Temperature of area containing hot-cell recorded daily. $USP < 825 > 5.7$				
Environmental Controls				
Drugs stored at appropriate controlled storage temperatures: Controlled room				
temperature per USP <659>, generally 68-77 F or 20-25 C. USP <825> 5.7				
Environmental Controls				
Drugs stored at appropriate controlled storage temperatures: Controlled cold				
temperature per USP <659>, generally 36-46 F or 2-8 C. USP <825> 5.7				

Environmental Controls

Environmental Controls

USP <825> 5.7 Environmental Controls

Drugs stored at appropriate controlled storage temperatures: Freezer temperature

Humidity recorded daily. Relative humidity should be maintained below 60%.

Temperature monitoring devices verified for accuracy every 12 months or as

If sterile packages not opened remotely in hot-cell – syringes may be opened and labeled outside of ISO 5 environment and placed in disinfected shielding. *USP*

per USP <659>, generally -13 to 14 F or -25 to -10 C. USP <825> 5.7

required by manufacturer. USP <825> 5.7 Environmental Controls

<825> 7.4 Disinfecting Supplies for Classified Areas and SRPAs

Critical sites wiped with sterile 70% IPA that is allowed to dry prior to piercing.		
$USP < \delta 23 > 1.5$ Disinfecting Critical Sites		
Personnel use correct aseptic technique. USP <825> 4.5 Hand Hygiene and		
Garbing for Buffer Areas and Segregated Radiopharmaceutical Processing Area and 10 Propagation		
Staging of supplies and materials in DEC does not allow influx of unclassified air		
into PEC USP < 825 > 5.6 Remote Asentic Processing Involving a Hot Cell		
Preparations, preparations with minor deviations, and compounded		
radionbarmaceuticals undergo appropriate in house guality control testing USP		
(825) 10 Prenaration and 11.2 Sterile Compounding		
Sterile radionharmaceutical final doses appropriately radioassaved USP < 825>		
12 1 Dispensing and Radioassay		
Documented master formulation record and prenaration record for all compounded		
preparations or preparations with minor deviations from manufacturer instructions.		
USP < 825 > 9.1 Master Formulation Record and 9.2 Records for Preparation with		
Minor Deviations/Compounding		
Master formulation record documents:		
• Name of the radiopharmaceutical		
• Name, identity, strength, purity, and quantity of ingredients		
 Detailed procedure 		
Range of radioactivity and range of volume		
 Equipment to be used including PEC or SEC if applicable 		
Required quality control tests		
 Required quanty control tests Trained personnal and required carbing if different from SOD 		
• Trained personnel and required garoing if different from SOF		
• Container		
• Reference for BUD assignment and storage conditions		
USP < 823 > 9.1 Master Formulation Record		
Preparation record for preparations with minor deviations or compounded		
preparations documents:		
• Name of the radiopharmaceutical		
• Physical form or dosage form		
• Name and quantity of ingredients including calibration time for		
radioactive ingredients		
• lotal volume		
• Reference to MFR and any deviations from MFR		
• Name of manufacturer/vendor, lot numbers and expiration dates		
of all ingredients and components		
• Name of compounder and verifying/supervising pharmacist		
• Date and time of preparation		
• Assigned lot number and/or prescription/order number		
BUD and storage requirements		
Quality control results		
USP <825> 9.2 Records for Preparations with Minor Deviations/Compounding		
In the absence of sterility testing, radiopharmaceuticals assigned a maximum BUD		
based on preparation conditions. (see $USP < 825 > Table 7$)		
• SRPA: 12 hours		
• ISO Class 8 ante and buffer room: 24 hours		
• ISO Class 7 or 8 ante and ISO Class 7 buffer room: 96 hours		
USP <825> 8. Assigning BUD		
Inner container appropriately labeled with:		
Standard radiation symbol		
"Caution-Radioactive Material"		
 Patient name/identifier for all therapeutic products 		
Radionuclide and chemical form		
Radioactivity at the date and time of calibration		
USP <825> 12.2 Labeling		
Outer container/shielding appropriately labeled with:		

Standard radiation symbol		
"Caution-Radioactive Material"		
• Patient name/identifier for all therapeutic products		
Radionuclide and chemical form		
• Radioactivity at the date and time of calibration		
• Volume or number of units dispensed		
• Product expiration or BUD and any special storage and handling		
instructions		
Route of administration		
USP <825> 12.2 Labeling		

Comments:

Radiolabeling Blood Components	Compliant	Non- Compliant	N/A	Not Inspected
Physical separation with either fixed or non-fixed wall from areas where non-blood		•		
products are handled. USP <825> 10.3 Preparation of Radiolabeled Blood				
Components				
Blood labeling performed in ISO Class 5 BSC in an ISO Class 7 buffer area. USP				
<825> 10.3 Preparation of Radiolabeled Blood Components				
Only one radiolabeling procedure per BSC at a time. USP <825> 10.3 Preparation of Radiolabeled Blood Components				
Maximum of 6 hour BUD after blood sample obtained. USP <825> 8. Assigning BUD				
BSC and all reusable equipment and components cleaned and disinfected after each				
radiolabeling procedure. USP <825> 10.3 Preparation of Radiolabeled Blood				
Components				
Dedicated supplies including consumable products and syringe shields and vial				
shields for each patient. USP <825> 10.3 Preparation of Radiolabeled Blood				
Components				
All tubes and syringes in contact with patient's blood components clearly labeled				
with patient name and additional identifier. USP <825> 10.3 Preparation of				
Radiolabeled Blood Components				
Removal and replacement of any garb that enters BSC before handling of anything				
not related to a radiolabeling procedure. $USP < 825 > 10.3$ Preparation of				
Radiolabeled Blood Components				
Complete hand hygiene and garbing procedures upon completion of blood				
radiolabeling procedures. USP <825>10.3 Preparation of Radiolabeled Blood				
Components				<u> </u>
Comments:				

Quality Assurance (QA) and Quality Control (QC)	Compliant	Non-	N/A	Not
	_	Compliant		Inspected
Formally established QA and QC programs overseen by a designated person. USP				
<825> 14. Quality Assurance and Quality Control				
QA and QC programs include system of:				
• Adherence to procedures;				
• Prevention and detection of errors;				
• Evaluation of complaints and adverse events; and				
• Investigation and correct actions.				
USP <825> 14. Ouality Assurance and Ouality Control				

Documented annual review of QA and QC programs. USP <825> 14. Quality		
Assurance and Quality Control		
If radiopharmaceutical dispensed before results of release testing, prescriber		
notified of any specification failures with the potential to cause patient harm. USP		
<825> 14.1 Notification About and Recall of Out-of-Specification Dispensed		
Radiopharmaceuticals		
Designated person reviews all complaints and investigates any complaints that		
indicate a potential quality problem with a radiopharmaceutical. USP <825> 14.2		
Complaint Handling		
Documented record of all complaints and investigation results. USP <825> 14.2		
Complaint Handling		
Comments:		