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Aseptic Techniques – Basic Requirements

- Sterility Testing : Regulatory Expectations
- USP: The facilities used to conduct sterility tests should be similar to those used for manufacturing product
- The facility for sterility testing should be such as to offer no greater a microbial challenge to the articles being tested than that of an aseptic processing production facility
- Proper design would, therefore, include a gowning area and pass-through airlock.
- Environmental monitoring and gowning should be equivalent to that used for manufacturing product.

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- Grade "A" zone with Grade "B" background
- Supporting adjacent clean rooms including well designed change rooms for personnel movements
- Aseptic gowning procedures
- Appropriate differential pressures across the rooms (very critical)
- Control and monitoring of differential pressure with alarms

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	Operational Challenges-Manufacturing	Parenteral Drug As
The F	Perfect intervention is the one that is not required	Indic
The f	ewer the interventions, the lower the potential for contamination	Chapi
Elimina	tion:	
Proc	ess and procedural design	
Impr	roving component quality	
Proc	ess automation	
Reso	lve the interventions under continuous process improvement	
Exce	ssive tolerance of interventions amounts to settling for an inferior de	sign
"Ref: Ir	terventions in Aseptic Processing –James P Agalloco,Akers Pharm	naceutical
tech	nology Vol 35, Issue-4, PP 69-72"	
Steri	lity – Accomplish through design more than any other means	

Operational Challenges-Sterility Testing Wipe all exposed surfaces of sample containers, tubes of culture media and other containers with surface disinfectant before placing in LAF workbench Outer wrapping of sterilized items be removed at the edge of the LAF workbench and the sterile inner items be introduced into LAF bench Change into a new pair of gloves after transferring supply items into the LAF workbench. Preferably, partner will then perform critical steps using uncontaminated gloves Remove over seals of the necks of the samples, wipe rubber

 Remove over seals of the necks of the samples, wipe rubber diaphragm of the vials & necks of the ampoules with 70% of alcohol

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Assessment of Aseptic Techniques			
	Manufacturing	Microbiology Lab	
Personnel:	 Trained into microbiological aspects, Aseptic gowning, Aseptic techniques/On the Job and aseptic media fill participation 	Trained into microbiological aspects , Aseptic gowning, Aseptic techniques/On the Job and manipulative controls	
Simulations :	•Sterilization of components & other items •Hold times •Filling ,Stoppering & Sealing •Interventions •Inspection	•Sterilization •Hold times •Testing manipulative controls •Incubation •Inspection •Positive & Negative controls	





