Produzieren unter GMP-Reinraumbedingungen

EU Guidelines to Good Manufacturing Practise Medicinal Products for Human and Veterinary Use

Annex 1 **Manufacturing of Sterile Medicinal Products**

1. Clean room and clean air device classification

	Maximum permitted number of particles per m³ equal to or greater than the tabulated size				
	At rest		In operation		
Grade	0.5 µm	5.0 µm	0.5 μm	5.0 μm	
Α	3.520	Not specified (a)	3.520	Not specified (a)	
В	3.520	Not specified (a)	352.000	2.900	
С	352.000	2.900	3.520.000	29.000	
D	3.520.000	29.000	Not Predetermined (b)	Not Predetermined (b)	

⁽a) Classification including $5\mu m$ particles considered where indicated by the CCS or historical trends.

2. Recommended limits for microbiological monitoring of clean areas during operation:

	Recommended limits for microbial contamination (c)				
	air sample	settle plates	contact plates	glove print	
	cfu/m³	(diameter 90 mm)	(diameter 55 mm)	5 fingers	
Grade		cfu/4 hours (d)	cfu/plate	cfu/glove	
Α	< 1	< 1	< 1	< 1	
В	10	5	5	5	
C	100	50	25	-	
D	200	100	50	-	

⁽c) These are average values.

Rein in die Zukunft

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⁽b) For Grade D, in operation limits are not permidetermined. The manufacturer should establish in operations limits based on a risk assessment and routine data where applicable.

⁽d) Individual settle plates may be exposed for less than 4 hours.