



REINHEITSKLASSENEINTEILUNG nach EU-GMP Richtlinien ANNEX 1/ März 2008 und DIN EN ISO 14644-1/1999

Clean Room Class / Reinraum-Klasse	Discriptive according to CDER, June 1987: "Guidelinie on Sterile Drug Products by Aseptic Processing"	European Commission Annex 1, 2008 Manufacture of Sterile medical products					descriptive	DIN EN ISO 14644-1/1999 Cleanrooms and associated environments Part 1: Classification of air cleanliness						
		at rest		in operation				at rest			descriptive	in operation		
		Max. permitted Nu. of particles / m ³ equal to or above (/ft ³)						Max. permitted Nu. of particles / m ³ equal to or above (/ft ³)				Max. permitted Nu. of particles / m ³ equal to or above (/ft ³)		
		≥ 0,5 μm	≥ 5 μm	≥ 0,5 μm	≥ 5 μm	Max. number of colony forming units CFU/m ³ (CFU/10ft ³)		≥ 0,3 μm	≥ 0,5 μm	≥ 5 μm		≥ 0,3 μm	≥ 0,5 μm	≥ 5 μm
Grade A ¹	Critical Areas	3.520	20	3.520	20	< 1	ISO Class 5	10.200	3.520	0	ISO Class 5	10.200	3.520	0
Grade B		3.520	29	352.000	2.900	10	ISO Class 5	10.200	3.520	29	ISO Class 7	102.000	352.000	2.930
Grade C	Controlled Areas ²	352.000	2.900	3.520.000	29.000	100	ISO Class 7	102.000	352.000	2.930	ISO Class 8	---	3.520.000	29.300
Grade D+ ³		3.520.000	29.000	not defined	not defined	200	ISO Class 8	---	3.520.000	29.300	ISO Class 8	---	3.520.000	29.300
Grade D	Pharmaceutical (with local monitoring)	3.520.000	29.000	not defined	not defined	200	ISO Class 8	---	3.520.000	29.300	---	---	---	---

1. Air velocity for unidirectional air flow (laminar Flow): 0,36- 0,54 m/s + 20 %
2. Unnamed state after a short "clean up" period of 15 - 20 minutes
3. Additional requirement for particles in operation
4. Alle Angaben ohne Gewähr diese Tabelle ist rein informativ