

LGGS, Inc.

LGGS, Inc. is an independently owned contract laboratory specializing in U.S.P. and ANSI/AAMI/ISO microbiological testing. We are dedicated to providing safe and reliable product testing. We proudly produce accurate results with the utmost efficiency for every client. Our commitment is to developing ongoing business relationships with our customers.

Cleanrooms

Cleanrooms are defined as a room or suite of rooms in which the concentration of airborne particles is maintained within established parameters. LGGS, Inc. performs Cleanroom Certification by ISO 14644-1, *Cleanrooms and associated controlled environments—Part 1: Classification of air cleanliness*. ISO 14644-1 covers the classification of air cleanliness in cleanrooms and associated controlled environments exclusively in terms of concentration of airborne particles.

LGGS, Inc. offers survey of the viable counts of cleanrooms and controlled environments. A sampling plan is established and followed on a routine basis to ensure continued compliance with standards.

Sample Selection

Clean room classification per ISO 14644-1

ISO Classification Number(N)	Maximum concentration limits (particles/m ³ of air) for particles equal to and larger than the considered sizes shown below (concentration limits are calculated in accordance with equation (1) in 3.2)					
	0.1µm	0.2µm	0.3µm	0.5µm	1.0µm	5.0µm
ISO Class 1	10	2				
ISO Class 2	100	24	10	4		
ISO Class 3	1000	237	102	35	8	
ISO Class 4	10000	2370	1020	352	83	
ISO Class 5	100000	23700	10200	3520	832	29
ISO Class 6	1000000	237000	102000	35200	8320	293
ISO Class 7				352000	83200	2930
ISO Class 8				3520000	832000	29300
ISO Class 9				35200000	8320000	293000

NOTE: Uncertainties related to the measurement process require that concentration data with no more than three significant figures be used in determining the classification level

Nonviable Monitoring
Viable Monitoring

Velocity Readings
Cleaning Validations

Cleanroom Certification by ISO 14644



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