

CLEANROOM TESTING REPORT

PREPARED FOR:

Clean Sciences Inc. Fremont, CA. Sept. 23, 2011
ISO 14644 Class 6
(Fed Std. 209 Class 1000)

PREPARED BY:

MICRO TEST SERVICE
SAN JOSE, CA
(408) 972-5614

INTRODUCTION

The purpose of this report is to present data recorded by **Micro Test Service** during testing of the cleanroom located at .301 Whitney Place, Fremont, CA. This testing consisted of work height particle counts, HEPA air velocity and Differential Pressure. All testing is performed as specified by **ISO 14644-1**. The testing was performed in the "At Rest" condition.

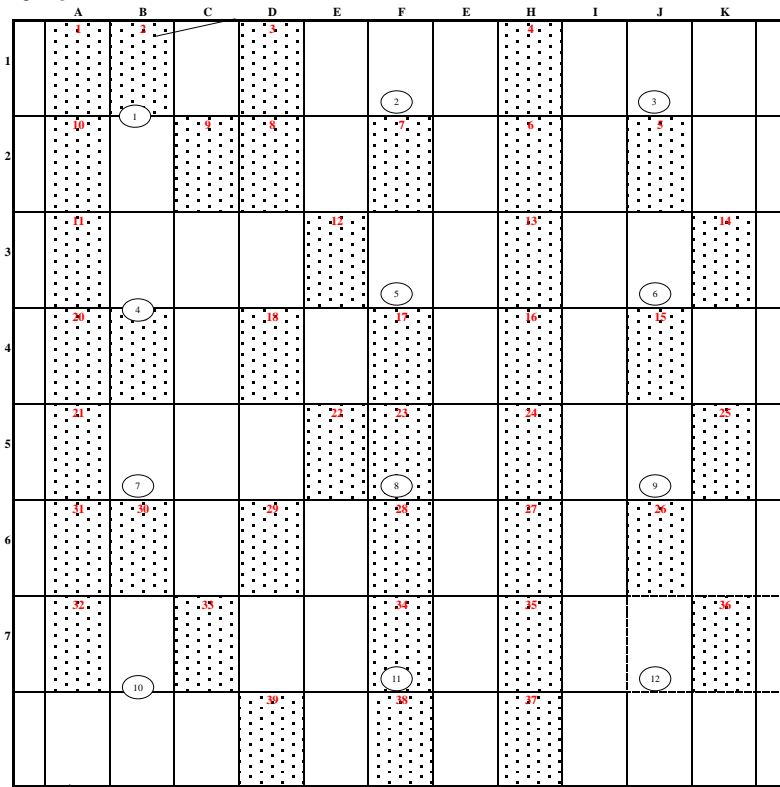
I. WORK HEIGHT PARTICLE COUNTS

The instrument used for this test was a **Climet Model 200 laser based particle counter**. This instrument has a sensitivity to 0.2 micron and calibration meets or exceeds all published specifications using standards and instruments whose accuracy is traceable to the **National Institute of Standards and Technology (NIST)**. The isokinetic probe of the particle counter was attached to a tripod and placed in a vertical position and pointed into the direction of the airflow. The tripod was adjusted so that the tip of the tripod was held **34 inches above the finished floor**. In the case where a piece of equipment or workstation was present a smaller tripod was used so that the height of the probe was 8 inches above the surface. **3 x 1 cubic ft. samples of air was taken at each of the locations.**

CONCLUSION:

All areas measured below class limits specified for this room. (See following room grid for count locations quantities.)

HEPA filter grid layout



HEPA filter velocity profile (FPM)	
Average	92.3
Max	112.0
Min	0
Std. Dev.	17.90

Acceptance range	
Max	110.7
Min	73.8

1	98
2	100
3	94
4	107
5	102
6	92
7	90
8	93
9	94
10	71
11	95
12	99
13	0
14	104
15	94
16	94
17	88
18	89
19	93
20	99
21	99
22	95
23	104
24	92
25	104
26	94
27	83
28	85
29	99
30	94
31	91
32	93
33	112
34	96
35	107
36	99
37	98
38	91
39	0

Gown Rm. ≤ 30 FPM

1 Workheight particle count locations

Pressure Differential:
 Cleanroom to Ambient 0.287 inches W. G
 Cleanroom to Gown 0.158 inches W. G
 Gown to Ambient 0.064 inches W. G

**Clean Sciences
 Inc.
 9-23-11**

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