

Cruinn MICROBIOLOGICAL

CERTIFICATE OF TESTING

Novaerus Environmental Monitoring Certificate

LABF 37-00

Cruinn Ref:	12032064M R2	Customer Name:	Novaerus
Performed By:	Laura Cunniffe	Date of Monitoring:	07 Dec 2020

Testing is carried out in accordance with procedures *LABO 15 Microbiological Environmental Monitoring Procedure*

FF = Filamentous Fungi

TNTC= Too Numerous to Count

MPN = Most Probable Number - statistical possibility of multiples particles passing through the same hole of air sampler head yet only presenting as a single colony forming unit (CFU). The statistical formula is provided by the manufacturer.

Particle Count (Without Novaerus Defend 1050)

Area / Room no.	PC #	Results Particles /m ³ of air @ 0.5µm	Results Particles /m ³ of air @ 5.0µm	Cleanroom level attained
Main Cleanroom (Area 2)	1	2418670	2580	ISO 8
	2	2390600	4780	ISO 8
	3	2375170	4160	ISO 8
	4	2342540	6100	ISO 8
	5	2324290	8380	ISO 8
	6	2311580	8910	ISO 8
	7	2315700	10480	ISO 8
	8	2247480	10740	ISO 8
	9	2258550	10330	ISO 8

Particle Count (With Novaerus Defend 1050)

Area / Room no.	PC #	Results Particles /m ³ of air @ 0.5µm	Results Particles /m ³ of air @ 5.0µm	Cleanroom level attained
Main Cleanroom (Area 2)	1	35080	1980	ISO 7
	2	31960	2080	ISO 7
	3	21340	2940	ISO 8
	4	35010	4500	ISO 8
	5	24290	2190	ISO 7
	6	23790	3740	ISO 8
	7	42300	3590	ISO 8
	8	28530	2130	ISO 7
	9	23470	2750	ISO 7

Comments: This certificate is supplementary to 12032064M R. The cleanroom level attained has been Added along with ISO classes table

Approved By/Date: _____

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Additional Information:

ISO 14644-1:2015(E)

Table 1 — ISO Classes of air cleanliness by particle concentration

ISO Class number (N)	Maximum allowable concentrations (particles/m ³) for particles equal to and greater than the considered sizes, shown below ^a					
	0,1 µm	0,2 µm	0,3 µm	0,5 µm	1 µm	5 µm
1	10 ^b	d	d	d	d	e
2	100	24 ^b	10 ^b	d	d	e
3	1 000	237	102	35 ^b	d	e
4	10 000	2 370	1 020	352	83 ^b	e
5	100 000	23 700	10 200	3 520	832	d, e, f
6	1 000 000	237 000	102 000	35 200	8 320	293
7	c	c	c	352 000	83 200	2 930
8	c	c	c	3 520 000	832 000	29 300
9g	c	c	c	35 200 000	8 320 000	293 000