

24. september 2009

BiolytiQs GmbH, Merowingerplatz 1a, 40225

Mier
Reinigungstechnik
Am Alten Brunnen 8b

Sampling date: 12. / 13. september 2009
Sampling received: 15. september 2009
Internal sampling number: 0909_0443
Client: Mier Reinigungstechnik
Client project: Molds versa IonFlow

Pos.	number	Typ	point of measurement	sample number
1	-	Foilcontact	-	-
2	-	Direct contact	-	-
3	-	Swap sample	-	-
4	-	Material sample direct	-	-
5	-	material microscopy of 4.1	-	-
6	-	total particle count	-	-
7	4	Air sample	Sample 1(after ventilation) and 2 (after 1 hour IonFlow operation). Sample 3 (after ventilation) and 4 (after 3 hours IonFlow operation)	0909_0443.1 0909_0443.2
8	-	determination of salt	-	-

Request: cultivation and analysis of mold and spores before and after the IonFlow operation.

to pos. 7 air sample

Method

The collected Dichloran-Glycerin-(DG 18) agar plates were incubated at $24^{\circ}\text{C} \pm 1^{\circ}\text{C}$.

After 3 and 6 days the agar plates were analysed. The colony count was determined and they were differentiated.

Foilcontact preparations were made, stained with a blue lactophenol solution and microscopical analyzed.



Sample 1, left (after ventilation) and 2 right (after 1 hour IonFlow operation)
0909_0443.1 100 liters sample volume
after 5 days incubation

DG 18 24°C sample 1
DG 18 24°C sample 2



Sample 3, left (after ventilation) and 4, right (after 3 hours IonFlow operation)
0909_0443.2

100 liters sample volume after 5 days
incubation

DG 18 24°C sample 3
DG 18 24°C sample 4

Sample form	Agar / Temperatur	Analysis	Colony / Agar plate	Colony/ m3 air*	
Air sample Sample 1, left (after ventilation) and right (after 1 hour IonFlow operation) 0909_0443.1 100 liters	DG 18 24°C	Cladosporium spp.	35	350	
		Penicillium spp. (3 types)	4	40	
	2 Sample 1	Wallemia sebi sterile colonies red yeast white yeast		1	10
				3	30
				2	20
				1	10
	total:	46	460		
DG 18 24°C Sample 2	Cladosporium spp. Penicillium spp. Eurotium sp. Aspergillus versicolor sterile colonies red yeast white yeast		5	50	
			1	10	
			1	10	
			1	10	
			4	40	
	1	10			
	3	30			
	total:	16	160		

Sample form	Agar / Temperatur	Analysis	Colony / Agar plate	Colony/ m3 air*	
Air sample Sample 3, left (after ventilation) and 4 right (after 3 hours IonFlow operation) 0909_0443.2 100 liters	DG 18 24°C	Cladosporium spp.	45	450	
		Eurotium sp.	3	30	
	Sample 3	Penicillium spp. (2 types) Wallemia sebi		2	20
				2	20
		total:	52	520	
DG 18 24°C Sample 4	Cladosporium sp Wallemia sebi Aspergillus versicolor		3	30	
			1	10	
			1	10	
	total:	5	50		

Bacteria are not calculated in the colony amount

<i>spp.</i> =	more species of one category, the species is not identified
<i>sp.</i> =	species of one category which is not identified
*	calculated value
Sterile colonies	not definable molds, they only build mycelium in the lab culture but no fruitbodies or spores

Extract of the original german report number 0909_0443

24 september 2009

Mrs. Klein-Vehne (manager laboratory analysis)