



ZAKŁAD JAKOŚCI ŻYWNOŚCI

92-202 Łódź, Al. Marszałka J. Piłsudskiego 84
tel. (+48 42) 636 92 11, (+48 42) 636 55 72, (+48 42) 674 64 14 wew. 320, fax (+48 42) 674 81 24
zj@ibprs.pl
NIP: 525-000-82-64 REGON: 000053835-00026

Instytut Biotechnologii Przemysłu Rolno-Spożywczego
im. prof. Wacława Dąbrowskiego
02-10121 Warszawa, ul. Rakowiecka 36
NIP 525-000-82-64 REGON 000053835
ZAKŁAD JAKOŚCI ŻYWNOŚCI
92 - 202 Łódź, Al. Marszałka J. Piłsudskiego 84
tel. (42) 674 64 14, (42) 636 92 11, tel./fax. (42) 674 81 24

1/1

Łódź, 20-10-2017

Certificate of Analysis No K/468/02/2017

Subject of analysis: UV-C AIR STERILISER ASEPTOR AS 255

Customer: Ultra-Viol sp.j. Pietras, Purgał, Wójcik
ul. Stępowizna 34
95-100 Zgierz

The sample for testing was delivered by the Customer: 12-10-2017
The tests began: 16-10-2017
The tests finished: 19-10-2017

| Type of analysis | Method | Results |
|--|---|-------------------------|
| Microbiological parameters | | |
| Examination of the level of air pollution during the operation of the lamp in a room of 78 m ² and height 2.9 m | Own Methodology Instruction MAS-100 Eco TM | [cfu/1 m ³] |
| - the total number of microorganisms after 1 hour | | 89 |
| - the total number of microorganisms after 2 hours | | 70 |
| - the total number of microorganisms after 6 hours | | 23 |

Authorized:

KIEROWNIK
Pracowni Mikrobiologii
Joanna Królasik
dr Joanna Królasik

Accepted:

KIEROWNIK ZAKŁADU
JAKOŚCI ŻYWNOŚCI
Beata Bartodziejska
dr Beata Bartodziejska



ZAKŁAD JAKOŚCI ŻYWNOŚCI

92-202 Łódź, Al. Marszałka J. Piłsudskiego 84
tel. (+48 42) 636 92 11, (+48 42) 636 55 72, (+48 42) 674 64 14 wew. 320, fax (+48 42) 674 81 24
zj@ibprs.pl
NIP: 525-000-82-64 REGON: 000053835-00026

Instytut Biotechnologii Przemysłu Rolno-Spożywczego
im. prof. Wacława Dąbrowskiego
02 - 532 Warszawa, ul. Rakowiecka 36
NIP 525-000-82-64 REGON 000053835
ZAKŁAD JAKOŚCI ŻYWNOŚCI
92 - 202 Łódź, Al. Marszałka J. Piłsudskiego 84
tel. (42) 674 64 14, (42) 636 92 11, tel./fax. (42) 674 81 24

-1/1-

Assessment of antibacterial efficacy of UV-C AIR STERILISER ASEPTOR AS 255

The aim and scope of the research

The aim of the study was to determine the effectiveness of air disinfection by **UV-C AIR STERILISER ASEPTOR AS 255** (Research report K /468/02/2017) on the basis of the total number of microorganisms examination using aspiration method after 1, 2 and 6 hours steriliser working in a room with an area of 78 m² and height 2.9 m.

Test procedure

The research was conducted in accordance with its own methodology developed at the Laboratory and the manufacturer's instructions MAS-100 ECOTM (Microbiological Air Sampler) in a room with an area of 78 m² and height 2.9 m.

The steriliser was placed in the center of the room and the air pollution was measured 5 meters from the equipment inlet after 1 , 2 and 6 hours of operation. The studies were performed based on the aspiration method using the microbial MAS-100 ECOTM air sampler. Each time the device was placed on a flat surface, about 90 cm above the floor, facing the outlet up and sucked 1000 liters of air through a perforated plate (time suck approx. 9 minutes). The air stream containing the particles was directed to the surface of PCA agar in a standard Petri dish. After completion of the air sampling cycle, plates were incubated at 30 ° C for 72h. Then grown colonies were counted and the number of microorganisms was determined in 1 m³ air, taking into account the correction of the FELLER statistical conversion table.

The total number of microorganisms in the air filling the room before the steriliser was activated was 497 cfu / m³.

Results

Table 1. Level of microbiological air pollution during operation **UV-C AIR STERILISER ASEPTOR AS 255**

| Operating time of the steriliser [h] | The total number of microorganisms [cfu/m ³] |
|--------------------------------------|--|
| 1 | 89 |
| 2 | 70 |
| 6 | 23 |