



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

Institut Biotechnologii Przemysłu Rolno-Spozywczego  
im. prof. Wacława Dąbrowskiego  
02-017 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/468/01/2017

**Subject of analysis: UV-C AIR STERILISER ASEPTOR AS 236**

**Customer: Ultra-Viol sp.j. Pietras, Purgal, 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
<b>Microbiological parameters</b>		
Examination of the level of air pollution during the operation of the lamp in a room of 42 m <sup>2</sup> and height 2.9 m	Own Methodology Instruction MAS-100 Eco <sup>TM</sup>	[cfu/1 m <sup>3</sup> ]
- the total number of microorganisms after 1 hour		144
- the total number of microorganisms after 2 hours		89
- the total number of microorganisms after 6 hours		21

Authorized:

KIEROWNIK  
Pracowni Mikrobiologii  
*Joanna Królasiak*  
dr Joanna Królasiak

Accepted:

KIEROWNIK ZAKŁADU  
JAKOŚCI ŻYWNOŚCI  
*Beata Bartodziejska*  
dr Beata Bartodziejska



ZAKŁAD JAKOŚCI ŻYWNOSCI

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 ŻYWNOSCI  
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 236**

**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 236** (Research report K /468/01/2017) 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 42 m<sup>2</sup> 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 ECO<sup>TM</sup> (Microbiological Air Sampler) in a room with an area of 42 m<sup>2</sup> 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 m<sup>3</sup> 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 812 cfu / m<sup>3</sup>.

**Results**

**Table 1.** Level of microbiological air pollution during operation **UV-C AIR STERILISER ASEPTOR AS 236**

Operating time of the steriliser [h]	The total number of microorganisms [cfu/m <sup>3</sup> ]
1	144
2	89
6	21