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LABORATORY REPORT

Date: 13th December 2016 Lab.No: 3466

On 9th December 2016 we were asked to evaluate the efficacy of the **ARIES ozone generator** against *Methicillin resistant Staphylococcus aureus* (MRSA) on a vapour permeable cover and a bed of cells.

Method

A room of approximately 2m x 3m x 4m was sealed and ozone generators run and allowed to equilibrate over a period of 45 minutes. Values were measured using a **Dasibi Ozone monitor**

An area of 25 sq.mm was inoculated with an approximate value of 10^6 cfu/ml of MRSA. This was then left with the ozone generators running for 30 minutes then the contaminated areas were resampled.

Results

<u>Time (mins)</u>	<u>0</u>	<u>30</u>	<u>% kill after 30 mins</u>
Vapour permeable covers	10^6	<1	100
Cells	10^6	<1	100
Ozone level ppm	0.916	0.867	

Conclusion

The results show that ozone is an extremely effective bactericidal agent, with a **100% kill rate of MRSA** after 30 minutes.

John Wright B.Sc.

MbS Screening Services.