

## Aromatherapy Sanitiser Efficacy Trial

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The method employed to carry out this testing was based on AOAC Official Method 960.09 (Germicidal and Detergent Sanitizing Action of Disinfectants).

The neutraliser buffer used was DE Neutralising Broth.

The organisms used were:

- *Escherichia coli*
- *Staphylococcus aureus*
- *Pseudomonas aeruginosa*

Numeric counts were performed after one minute and five minute contact times.

A numeric count of the inoculant solutions was carried out before any contact times to ascertain the theoretical level of organisms inoculated into each sample. This is shown in Table 1.

Table 1:

Organism	cfu per mL of inoculum	Theoretical cfu per mL/g of Product
<i>Escherichia coli</i>	600,000,000	6,000,000
<i>Staphylococcus aureus</i>	230,000,000	2,300,000
<i>Pseudomonas aeruginosa</i>	780,000,000	7,800,000



**ANALYTICAL R&D**

**Spółka z o.o.**

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93-465 Łódź

**CERTIFICATE OF ANALYSIS**  
**CA-12-134**

Date of Analysis:

21.06.2012 r.

Release Date:

22.06.2012 r.

Product:

**PRANA+**

Batch no:

Date Production:

Date Expiration:

No.	Test micro - organism	Criteria of acceptance [log reduction]				Result [log% reduction]			
		after 1min	after 5min	after 15min	after 30min	after 1min	after 5min	after 15min	after 30min
1.	Staphylococcus aureus					4	4	4	NI
2.	Pseudomonas aeruginosa	1	3	4	NI	4	4	4	NI
3.	Candida albicans					4	4	4	NI

NI - no increase

dr inż. Dominik Rajski  
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Signature

Results of the trial can be seen in the tables below.

*Escherichia coli*

Contact time	Count before contact	LOG <sub>10</sub>	Count after contact	LOG <sub>10</sub>	LOG <sub>10</sub> decrease	% Decrease
1 minute	6,000,000	6.78	6000	3.78	3.00	99.900
5 minutes	6,000,000	6.78	<100	<2	>4.78	99.998

*Staphylococcus aureus*

Contact time	Count before contact	LOG <sub>10</sub>	Count after contact	LOG <sub>10</sub>	LOG <sub>10</sub> decrease	% Decrease
1 minute	2,300,000	6.36	1,000,000	6.00	0.36	56.52
5 minutes	2,300,000	6.36	13,000	4.11	2.25	99.43

*Pseudomonas aeruginosa*

Contact time	Count before contact	LOG <sub>10</sub>	Count after contact	LOG <sub>10</sub>	LOG <sub>10</sub> decrease	% Decrease
1 minute	7,800,000	6.89	2,000,000	6.30	0.59	74.36
5 minutes	7,800,000	6.89	17,000	4.23	2.66	99.78

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