

# Analytical MicroLabs

## Industrial Microbiologists

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### Citrofresh Bacterial testing record sheet

**Certificate number:** 030105  
**Batch number:** 360754  
**Production date:** January 2005  
**Date or period of testing:** 18<sup>th</sup> -24<sup>th</sup> of January 2005

**Organism tested:**  
 1. *Pseudomonas aeruginosa* NCTC 6749  
 2. *Proteus vulgaris* NCTC 4635  
 3. *Escherichia coli* NCTC 8196  
 4. *Staphylococcus aureus* NCTC 4163

**MIC by tube dilution:**  
*Pseudomonas aeruginosa* 6.25  
*Proteus vulgaris* 3.125  
*Escherichia coli* 3.125  
*Staphylococcus aureus* 1.65

**MBC by tube dilution:**  
*Pseudomonas aeruginosa* 6.25  
*Proteus vulgaris* 3.125  
*Escherichia coli* 3.125  
*Staphylococcus aureus* 1.65

Tube number	1	2	3	4	5	6	7	8	9	10	
Concentration of Citrofresh % (v/v)	100	50	25	12.5	6.25	3.125	1.65	0.8	0.4	Neg	
<b>MIC</b>											
Organism 1.	Ng	Ng	Ng	Ng	Ng	Growth	Growth	Growth	Growth	Ng	
Organism 2.	Ng	Ng	Ng	Ng	Ng	Ng	Growth	Growth	Growth	Ng	
Organism 3.	Ng	Ng	Ng	Ng	Ng	Ng	Growth	Growth	Growth	Ng	
Organism 4.	Ng	Ng	Ng	Ng	Ng	Ng	Ng	Growth	Growth	Ng	
<b>MBC</b>											
Organism 1.	Ng	Ng	Ng	Ng	Ng	Growth	Growth	Growth	Growth	Ng	
Organism 2.	Ng	Ng	Ng	Ng	Ng	Ng	Growth	Growth	Growth	Ng	
Organism 3.	Ng	Ng	Ng	Ng	Ng	Ng	Growth	Growth	Growth	Ng	
Organism 4.	Ng	Ng	Ng	Ng	Ng	Ng	Ng	Growth	Growth	Ng	

**Initial inoculum concentration:** 2 x 10<sup>9</sup> orgs\ ml

**Incubation temperature and time:** 37 degrees Celsius for 24 hrs

**Kelsey- Maurer Capacity test (TGA Disinfectant test, Appendix 54, 545A, TGA Protocol)***(The above test validated, using Virkon S registered disinfectant)*

Concentration of Citrofresh	4%		8%		10%		12%	
Time of challenge	8 min.	18 min.	8 min.	18 min.	8 min.	18 min.	8 min.	18 min.
Organism tested								
Pseudomonas aeruginosa NCTC 6749	4/5 Growth	3/5 Growth	2/5 Growth	2/5 Growth	2/5 Growth	1/5 Growth	0/5 Growth	0/5 Growth
Proteus vulgaris NCTC 4635	4/5 Growth	4/5 Growth	2/5 Growth	2/5 Growth	1/5 Growth	1/5 Growth	0/5 Growth	0/5 Growth
Escherichia coli NCTC 8196	4/5 Growth	4/5 Growth	2/5 Growth	2/5 Growth	0/5 Growth	1/5 Growth	0/5 Growth	0/5 Growth
Staphylococcus aureus NCTC 4163	2/5 Growth	1/5 Growth	1/5 Growth	0/5 Growth	0/5 Growth	0/5 Growth	0/5 Growth	0/5 Growth

(0, 1, 2, 3, 4, 5/5 growth represent the positive broth out of 5 Nutrient broth)

**Initial inoculum concentration:** 2 x 10<sup>9</sup> orgs\ ml**Incubation temperature and time:** 37 degrees Celsius for 48 hrs**Condition:** clean dirty (underline appropriate)

**Effective concentration:**

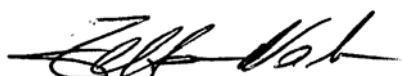
Pseudomonas aeruginosa	8%
Proteus vulgaris	8%
Escherichia coli	8%
Staphylococcus aureus	4%

**Recommended concentration:**

Pseudomonas aeruginosa	10%
Proteus vulgaris	10%
Escherichia coli	10%
Staphylococcus aureus	4%

**Controls:**

1. Recovery Broth contamination	No growth
2. Disinfectant contamination	No growth
3. Fertility test	Growth
4. Inactivator Efficacy	Growth

**Results of controls:** Validated test**Authorised by:**


**Zoltan Nack MSc. MBA. MASM**  
**Biologist, Senior Scientist, Analytical MicroLabs**