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## **Citrofresh Bacterial testing record sheet**

Certificate number: Batch number: Production date: Date or period of testing: 010706 361434 February 2006 15/03/06- 25/03/06

**Chemical characteristic:** 

	Superconcentrate	14P	Hospital Grade (10%)
pH	1.3	2.5	3.1
Specific Gravity	1210	1010	1005

## **Microbiological characteristics:**

Organism tested:	<ol> <li>Pseudomonas aeruginosa</li> <li>Proteus vulgaris</li> <li>Escherichia coli</li> <li>Staphylococcus aurous</li> </ol>	NCTC 6749 NCTC 4635 NCTC 8196 NCTC 4163
MIC by type dilutions	4. Staphylococcus aureus	
MIC by tube dilution:	Pseudomonas aeruginosa Proteus vulgaris	3.12 % (v/v) 3.12 % (v/v)
	Escherichia coli Staphylococcus aureus	3.12 % (v/v) 1.65 % (v/v)
MBC by tube dilution:	Pseudomonas aeruginosa Proteus vulgaris	6.25 % (v/v) 6.25 % (v/v)
	Escherichia coli	6.25 % (v/v)
	Staphylococcus aureus	1.65 % (v/v)

Version 130706

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

Initial inoculum concentration:

8 x 10<sup>8</sup>- 9 x 10<sup>8</sup> orgs\ ml

**Incubation temperature and time:** 

37 degrees Celsius for 24 hrs

Concentration of Citrofresh	4	%	8	8% 10%		0%	12%		
Time of challenge	8 min.	18 min.							
Organism tested		•		•		•			
Pseudomonas aeruginosa NCTC 6749	5/5 Growth	4/5 Growth	3/5 Growth	3/5 Growth	1/5 Growth	0/5 Growth	0/5 Growth	0/5 Growth	
Proteus vulgaris NCTC 4635	4/5 Growth	4/5 Growth	3/5 Growth	2/5 Growth	0/5 Growth	0/5 Growth	0/5 Growth	0/5 Growth	
Escherichia coli NCTC 8196	5/5 Growth	4/5 Growth	3/5 Growth	2/5 Growth	0/5 Growth	0/5 Growth	0/5 Growth	0/5 Growth	
Staphylococcus aureus NCTC 4163	1/5 Growth	1/5 Growth	0/5 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:	8 x 10 <sup>8</sup> - 9 x 10 <sup>8</sup> orgs\ ml
Incubation temperature and time:	37 degrees Celsius for 48 hrs
Condition:	dirty – 5% sterile yeast
Diluent:	Standard Hard Water

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Effective	concentration:	

Pseudomonas aeruginosa10%Proteus vulgaris10%Escherichia coli10%Staphylococcus aureus4%

<u>Please note: The above recommended usage concentrations of Citrofresh are based on an Initial inoculum concentration of  $8 \times 10^8 - 9 \times 10^8$  orgs\ ml. Lower microbial counts would not require such high concentrations of Citrofresh in order to be effective against them.</u>

**Controls:** 

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

No growth No growth Growth Growth

Authorised by:

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