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## <u>Certificate of Analysis</u> Sample: Citrofresh 14P Organism: Bacillus cereus NCTC 9945

The above sample has undergone the following tests to determine the antibacterial performance:

The initial working concentration of Citrofresh 14P of 10% and 12% in dirty and clean condition was determined by agar and broth dilution, which can be extrapolated to **MIC** (Minimum Inhibitory Concentration) and **MBC** (Minimum Bactericidal Concentration) under certain conditions.

**Carrier test** to determine the Antibacterial Efficacy (AOAC use-dilution) **Capacity test** (Kelsey-Sykes) to determine retaining activity in the presence of an increasing load of organic matters.

The following results were obtained:

Name of test	Concentration of Citrofresh 14P	Initial count of organism	Contact time and result	Contact time	Contact time
Carrier test (one carrier)					
	10% Citrofresh 14P	1.8X 10^8 orgs/ml	10 min- 2/5 growth	N/A	N/A
	12% Citrofresh 14P	1.8X 10^8 orgs/ml	10 min- No growth	N/A	N/A
Capacity test					
Dirty Condition	10% Citrofresh 14P	1.8X 10^8 orgs/ml	10 min- 3/5 growth	20 min- 2/5 growth	30 min- 2/5 growth
	12% Citrofresh 14P	1.8X 10^8 orgs/ml	10 min- No growth	20 min- No growth	30 min- No growth
Clean Condition	10% Citrofresh 14P	1.8X 10^8 orgs/ml	10 min- 1/5 growth	20 min- 2/5 growth	30 min- 3/5 growth
	12% Citrofresh 14P	1.8X 10^8 orgs/ml	10 min- No growth	20 min- No growth	30 min- No growth

## **Conditions:** - Dirty condition was obtained by adding 1% Bovine Serum Albumen to the bacterial `suspension

- Clean condition was obtained by adding 0.03% Bovine Serum Albumen to the bacterial suspension
- Bacterial suspension was prepared in Standard Hard Water
- Muller Hinton Broth and Horse Blood Agar was used to detect bacterial growth

**Comments:** 

The product performs in a satisfactory manner and is recommended for use at a minimal dilution of 12% with a minimum of 10 minutes exposure time to eliminate the above organism.

(The principles detailed in the book of "Principles and Practice of Disinfection, Preservation and Sterilisation, by Russel, Hugo, Ayliffe. Third Edition, 1999.)

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