

## PRESERVATION EFFICACY TEST CERTIFICATE OF ANALYSIS

COMPANY NAME : MING FAI ENTERPRISE INTERNATIONAL Co. Ltd.  
PRODUCT DESCRIPTION : SYMBOLIC 40ML HAIR SHAMPOO FORMULA No:SH1-2491  
LOT-BATCH NUMBER : NOT LISTED  
SAMPLER : CLIENT  
START DATE : 28/07/2017  
TEST MATERIAL REMARKS : STABILITY TEST HAVE DONE BY MING FAI

### MICROBIOLOGICAL TEST ON RECEIPT

PARAMETER	REPORT	UNITS
Total Microbial Count	<10	cfu/g
Moulds & Yeasts	<10	cfu/g
Pseudomonas aeruginosa	Absence per g	
Staphylococcus aureus	Absence per g	
Candida albicans	Absence per g	

### PROTOCOL

The test consists of challenging the preparation, with a prescribed inoculum of suitable micro-organisms, storing the inoculated preparation at ambient temperature, avoiding sunlight, withdrawing samples from the container at specified intervals of time and counting the organisms in the samples so removed. The preservative properties of the preparation are adequate if, in the conditions of the test, there is a significant fall or no increase, as appropriate, in the number of micro-organisms in the inoculated preparation after 2, 7, 14 and 28 days.

### TEST FOR EFFICACY OF ANTIMICROBIAL PRESERVATION ACCORDING TO EUROPEAN PHARMACOPOEIA

PARAMETER	ATCC	LOT	INOCULATION	0 TIME	2nd DAY	7th DAY	14th DAY	28th DAY
Pseudomonas aeruginosa	9027	4846231	6.5E+05	6.1E+05	<100	<10	<10	<10
Staphylococcus aureus	6538	4852821	4.8E+05	4.5E+05	<100	<10	<10	<10
E. coli	8739	4835111	8.6E+05	8.1E+05	<100	<10	<10	<10
Candida albicans	10231	4434841	2.5E+05	2.6E+05	<100	<10	<10	<10
Aspergillus brasiliensis	16404	3923205	4.5E+05	4.4E+05	3.9E+02	<10	<10	<10

Units in cfu/g

**CONCLUSION :** Satisfactory, meet the relevant Acriteria

For the laboratory



**D. Melissos**  
Chemist MSC



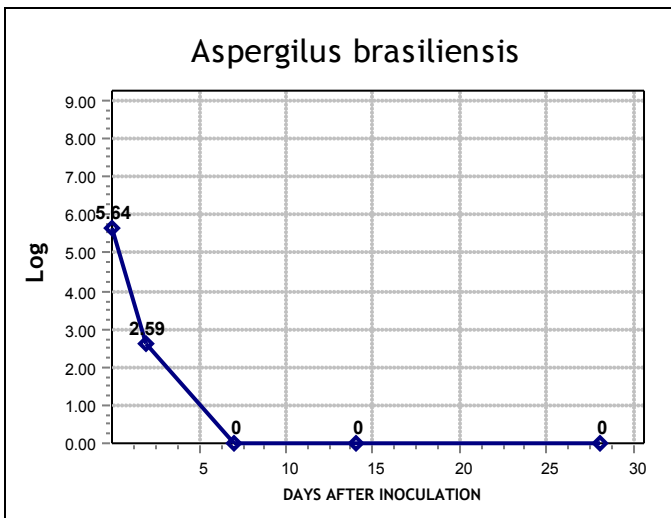
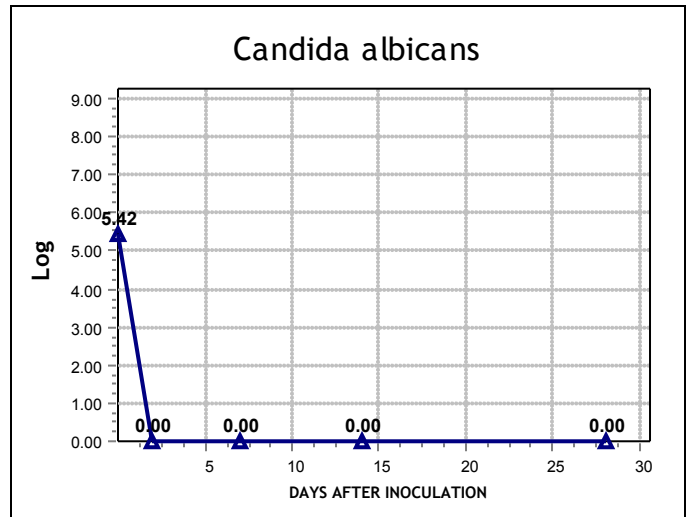
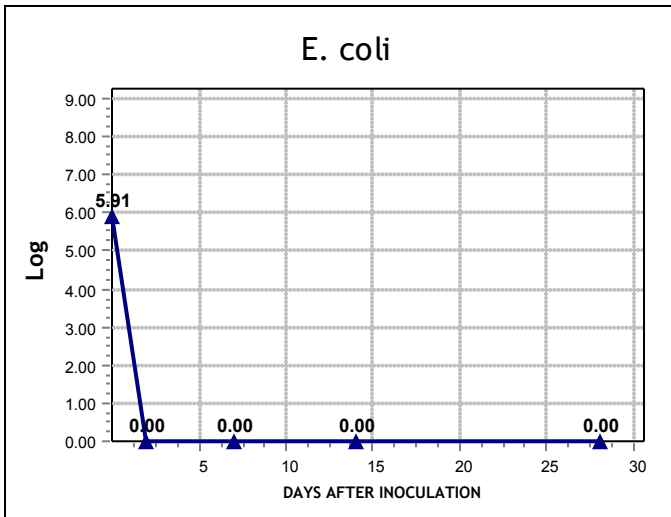
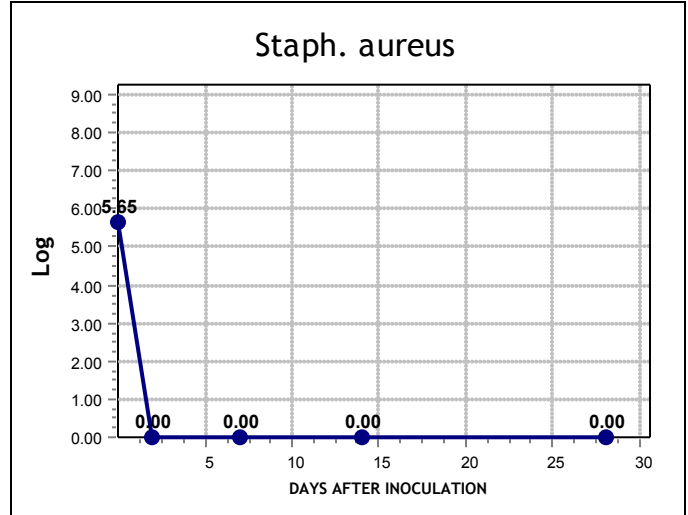
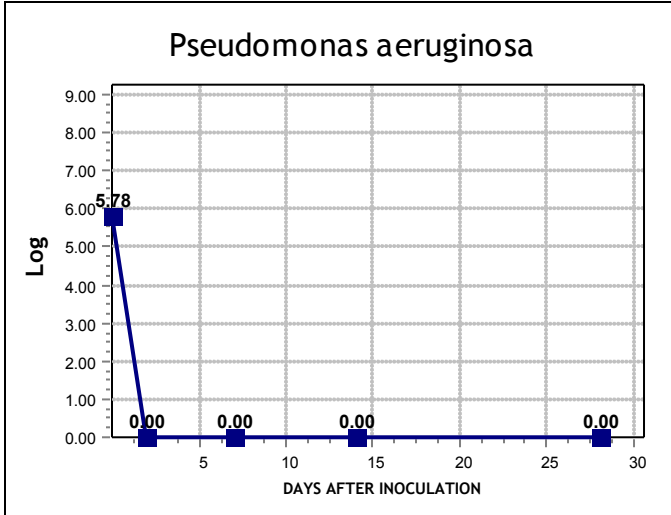
Testing  
No of Certificate 195-4

### CRITERIA

European Pharmacopoeia, Criteria A (B), limits in log reduction units, where NI: No Increase.

TIME	2 DAYS	7 DAYS	14 DAYS	28 DAYS
BACTERIA	2	3	- (3)	NI
MOULDS & YEASTS	-	-	2(1)	NI

**LOG REDUCTION CHARTS**



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End report