

CHEMICAL LABORATORY (MALAYSIA) SDN BHD (27822-K)

Wisma Kam, 87C-91C, Jalan SS 25/2, Taman Bukit Emas, 47301 Petaling Jaya, Selangor Darul Ehsan, Malaysia.

Tel: 03-7803 2229, 7803 9582, 7803 0386 Fax: 03-7803 2303

E-mail: clhq@chemlab.com.my

Homepage: http://www.chemlab.com.my

ASSAYERS, ANALYTICAL CHEMISTS, MICROBIOLOGISTS AND INDUSTRIAL CONSULTANTS

Chairman & Managing Director

Dato' Dr. F.W. Kam C.Chem, FRSC, FRACI, FIFST, FIM, FRSH, FBIM, F. Inst. Pet., AMIC, FMOSTA

Directors

I. K. Yeo KMN, M. Sc., C. Chem, FRSH, FPRIM, AMIC, FMOSTA, ANCRT

Datin P. K. Wong MRSH, MBIM, F. Inst. Pet., Dip NIOA

Marcus K. F. Kam

B. E. (Hons), M. Sc., C. Chem, MRACI, MBA

CERTIFICATE OF ANALYSIS

Company : M/s. Asia Rainbow Corporation Sdn Bhd
82, Jalan Villaraya 1/3A, Villaraya Industrial Park 1,
Pekan Bt. 23, Jalan Sg. Lalang,
43500 Semenyih, Selangor.

Lab No : PJ-L/MS/2735/03

Page : 2 of 2

Date Sample Reported : 3rd October 2003

BACTERIOLOGICAL ANALYSIS :

Challenge Test


- 7) Calculate the percentage of kill for all organisms as follows :

$$\frac{\text{Initial Count} - \text{Count of organism survive}}{\text{Initial Count}} \times 100\%$$

RESULTS :

Organism Tested	Initial Count, cfu/ml (A)	Count of survive organism, cfu/ml (B)	Percentage of kill, $\frac{(A) - (B)}{(A)} \times 100\%$
a) <i>Staphylococcus aureus</i> ATCC 6538	9.3×10^6	0	100%
b) <i>Escherichia coli</i> ATCC 8739	9.6×10^6	0	100%
c) <i>Salmonella typhimurium</i> S 865	1.5×10^6	0	100%

THE ABOVE ANALYSIS IS BASED SOLELY ON THE SAMPLES SUBMITTED BY THE CLIENT


VICTOR K. S. CHOONG
 B.Sc., A.M.I.C., A.O.A.C., F.MOSTA
 SENIOR MANAGER

CHEMICAL LABORATORY (MALAYSIA) SDN BHD (27822-K)

Wisma Kam, 87C-91C, Jalan SS 25/2, Taman Bukit Emas, 47301 Petaling Jaya, Selangor Darul Ehsan, Malaysia.

Tel: 03-7803 2229, 7803 9582, 7803 0386 Fax: 03-7803 2303

E-mail: clhq@chemlab.com.my

Homepage: http://www.chemlab.com.my

ASSAYERS, ANALYTICAL CHEMISTS, MICROBIOLOGISTS AND INDUSTRIAL CONSULTANTS

Chairman & Managing Director

Dato' Dr. F.W. Kam C.Chem, FRSC, FRACI, FIFST, FIM, FRSH, FBIM, F. Inst. Pet., AMIC, FMOSTA

Directors

I. K. Yeo KMN, M. Sc., C. Chem, FRSH, FPRIM, AMIC, FMOSTA, ANCRT

Datin P. K. Wong MRSH, MBIM, F. Inst. Pet., Dip NIOA

Marcus K. F. Kam

B. E. (Hons), M. Sc., C. Chem, MRACI, MBA

CERTIFICATE OF ANALYSIS

Company : M/s. Asia Rainbow Corporation Sdn Bhd
82, Jalan Villaraya 1/3A, Villaraya Industrial Park 1,
Pekan Bt. 23, Jalan Sg. Lalang,
43500 Semenyih, Selangor.

Lab No : PJ-L/MS/2735/03

Page : 1 of 2


Sample Description : One (1) sample of Liquid
Sample Marking : Odourless 100ml (Anotec 0307 Odor Kill)
Date Sample Received : 26th September 2003
Date Sample Reported : 3rd October 2003

BACTERIOLOGICAL ANALYSIS :

Challenge Test

Procedure :

- 1) Prepare inoculum of each organism below at 10^6 cfu/ml.
 - a) *Staphylococcus aureus* ATCC 6538
 - b) *Escherichia coli* ATCC 8739
 - c) *Salmonella typhimurium* S 865
- 2) Inoculate 9 ml of sanitizer with 1 ml of inoculum using micropipette and allow to set for 6 hours.
- 3) Transfer of 1 ml of aliquot into 9 ml peptone solution (diluent) to make 10^{-1} dilution. Proceed with the same procedure to make dilution up to 10^{-4} .
- 4) Pipette 1 ml of each dilution into duplicate petri dish and pour melted Tryptic Soy agar and allow to solidify.
- 5) Incubate all plates at 35°C for 48 hours and count the colonies observed after completion of incubation.
- 6) Initial count for inoculum was also recovered.


VICTOR K. S. CHOONG
B.Sc., A.M.I.C., A.O.A.C., MMOSTA
SENIOR MANAGER