



Pusat Penyelidikan Teknologi Alam Sekitar
Environmental Technology Research Centre

Building 15, SIRIM Berhad, Shah Alam, Selangor Darul Ehsan

Tel: 60-3-5544 6550 / 6598 Fax: 60-3-5544 6590 / 6579

RESULTS SUMMARY

Company Name : Trumer Medicare Sdn. Bhd

Address : No.16-2, Jalan SS19/1G
47500 Subang Jaya
(Attn: Mr.Yap)

Your Ref No.	
SIRIM Ref.No.	ETRC257/16/1127
Job No.	J076/13
Report No.	R117/13&R114/13
Date of Issue	29/8/2013
No. of pages	2

Request : **Ecotoxicity Test on 'Nano Colloidal Argentum'**

SAMPLE DESCRIPTION

One (1) liquid sample was received on 18 June 2013 coded as J076/13: Nano Colloidal Argentum.

TEST METHOD

Refer page 2


RESULT:

Refer page 2

INFERENCE

Refer page 2

The results contained in this report relate only to samples/ items received and analysed by SIRIM Environmental Technology Research Centre. This report shall not be reproduced except in full without the written approval of SIRIM Berhad.


Name: Karimah Muhamad
Designation: Associate Researcher
Fax No: 03-55446590
Tel. No: 03-55446583

SIRIM Berhad (Company No. 367474 - V)

1, Persiaran Dato' Menteri, Section 2, P. O. Box 7035, 40911 Shah Alam, Selangor Darul Ehsan, MALAYSIA

Tel : 603-5544 6000 Toll Free : 1 300 88 7035 Fax : 603-5510 8095

Website : www.sirim.my



MS ISO/IEC 17025
TESTING
SAMM NO. 195

TEST METHOD

- 1) OECD Guideline for Testing of Chemicals Method 202 (Adopted 13 April 2004), *Daphnia sp.*, Acute Immobilisation Test
- 2) OECD Guideline for Testing of Chemicals Method 203 (Adopted 17th July 1992) Fish Acute Toxicity Test

RESULT:

Table 1: Results of EC₅₀ *Daphnia sp.*, Acute Immobilisation Test on 'Nano Colloidal Argentum'
Refer to- ETRC257/16/1127(R117/2013) for details.

Exposure	EC ₅₀ (mg/L)	95% Confidence Limit (mg/L)	Standard Error
24	275	N.A	N.A
48	261	N.A	N.A

Note: N.A-not applicable due to data limitation

Table 2: Results of LC₅₀ Fish Acute Toxicity Test on 'Nano Colloidal Argentum'

Refer to- ETRC257/16/1127(R114/2013) for details.

Exposure	LC50 (mg/L)	95% Confidence Limit
24	780	663-897
48	500	429-570
72	471	400-542
96	443	387-499

INFERENCE

The classification categories for substances hazardous to the aquatic environment according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), Third Revised Edition are shown below:

Categories (Acute Immobilisation toxicity at 48 hr EC ₅₀ for crustacea)	Classification Limit
Acute 1	≤ 1 mg/L
Acute 2	>1 but ≤ 10 mg/L
Acute 3	>10 but ≤ 100 mg/L

'Nano Colloidal Argentum' is not classified as hazardous to the aquatic environment based on the classification limit of the GHS.

