



**SINGAPORE
LABORATORY
ACCREDITATION SCHEME**

Number: LA-1993-0064-A

Date of Issue: 15 April 2008

Date of Expiry: 14 April 2011

Certificate of Accreditation

This certifies that

**ALS Technichem (S) Pte Ltd
14 Little Road #07-01 & 08-01
Tropical Industrial Building
Singapore 536987**

is accredited under the Singapore Accreditation Council
– Singapore Laboratory Accreditation Scheme to

ISO / IEC 17025 : 2005

for specific tests/items within the field of

Chemical & Biological Testing

as detailed in the attached schedule.

This Certificate is awarded subject to the testing organisation's compliance with the prescribed regulations and technical requirements of the Singapore Accreditation Council – Singapore Laboratory Accreditation Scheme (SAC-SINGLAS).

This Certificate may not be reproduced except with the written permission of the Chairman.

Chairman

Schedule



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MATERIALS/ PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS/ TECHNIQUES/ E QUIPMENT
<p>I. ROHS (IEC 62321) - Electronic / Electrical Components</p> <ul style="list-style-type: none"> • Plastics • Metals • Plastics • Metals • Plastics & Metals 	<p>Determination of Cadmium and Lead</p> <p>Determination of Cadmium and Lead</p> <p>Determination of Mercury</p> <p>Determination of Mercury</p> <p>Determination of Trace Elements Chromium (VI)</p>	<p><u>Sample Preparation</u> EPA 3052 / Acid digestion / Microwave oven</p> <p><u>Analysis</u> EPA 6010 / ICP – OES</p> <p><u>Sample Preparation</u> EN 13346 (Method B) / Acid Digestion</p> <p><u>Analysis</u> EPA 6010 / ICP – OES</p> <p><u>Sample Preparation</u> EPA 3052 / Acid digestion / Microwave oven</p> <p><u>Analysis</u> USEPA 7471B / Cold Vapour technique / FIMS</p> <p><u>Sample Preparation</u> EN 13346 (Method B) / Acid digestion</p> <p><u>Analysis</u> USEPA 7471B / Cold Vapour technique / FIMS</p> <p><u>Sample Preparation</u> EPA 3060A / Alkaline Extraction</p> <p><u>Analysis</u> USEPA 7196A / Colorimetric method / UV-VIS Spectrometer</p>

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MATERIALS/ PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS/ TECHNIQUES/ E QUIPMENT
<ul style="list-style-type: none"> Plastics / Rubber / Polymer 	Determination of Polybromodiethyl Ether's (PBDE) and Polybromobiphenyl's (PBB)	<u>Sample Preparation</u> EPA 3540 / Soxhlet Extraction <u>Analysis</u> GCMS
J. Polymers	Halogen (Chlorine and Bromine) by IC	EN 14582 (Oxygen Bomb) EN 14582 (Annex A, Combustion Flask)

Approved Signatories

Mrs Wong Mei Hong - for all accredited tests (except Section I and F3 [GCMS])
 Ms Pansy Teo - for Section F [except LC], H & I
 Ms Amy Sol - for Section G
 Mr Yao Kai Wen - Section A (except cholesterol), Section G, I and J
 Mr Tan Teong Huat - for Section H
 Mr Jasper Tan Boon Hwa - for microbiological tests in Section E & F
 Ms Regina Lim - for Section B, C, D & E (except microbiological tests)
 Ms Penny Seah - for Section A (except cholesterol)
 Ms Jinny Quek - for microbiological tests in Section E & F
 Mr Kent Tan - for Section J
 Ms Jasmine Chen - for Section J
 Ms Leong Suet Ping - for Section J

Note :

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005. A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid test results and calibrations. The **management system requirements** in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 **Quality Management Systems — Requirements** and are aligned with its pertinent requirements.