

IMPORTANCE of ACCREDITATION



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Why ISO?



To obtain a structured & controlled **System for Consistent** quality products / services in meeting the customers' requirements.



To provide greater **Confidence** to the market place & to gear up your business for a **Competitive** world.



To win new **Customers** & to retain **Existing Customers**
\$\$\$

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WHY Accreditation is IMPORTANT?

THE BENEFITS OF USING AN ACCREDITED LABORATORY to Government and Regulators by:



Increasing confidence in data that is used to establish baselines for key analyses and decisions.



Reducing uncertainties associated with decisions that affect the protection of human health and the environment.



Increasing public confidence, because accreditation is a recognizable mark of approval.



Eliminating redundant reviews and improving the efficiency of the assessment process (which may reduce costs).

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WHY Accreditation is IMPORTANT?

Using an accredited laboratory also **increases confidence** that:

Decisions

- Decisions regarding multiple facilities are based on comparable data.

Safe & Reliable

- Purchases received from suppliers are safe and reliable.

Minimised Costs

- Costs associated with laboratory problems, including re-testing, re-sampling and lost time are minimized.

Minimised Compliance Affect

- False positives and negatives, which can directly affect compliance with regulations are minimized.

Facilitates trade & Growth

- Using accredited laboratories also facilitates trade and economic growth.

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IMPLICATIONS ON TRADE

Recognition

The mutual recognition of test data, reports and certificates from laboratories /certification bodies accredited by MRA (Mutual Recognition Arrangement) signatories is a major step toward the reduction of technical barriers to trade.

Reduction

Reducing the need for re-testing a product or re-certification in importing countries mean significant savings of time and money for exporters. Exporters would be enjoying these benefits.

Reliable

Clients of certification bodies and users of the laboratories would also receive services and tests data that are reliable.

Objectives of Laboratory Accreditation Systems

- 1 " Ensure validity of test data by ensuring that the laboratory is operating to the best of its ability.
- 2 " Promote the acceptance of test data by users of laboratory services so that data produced by one lab can be accepted by another without further tests.
- 3 " Facilitate international trade through the acceptance of test data from accredited laboratories.
- 4 " Make more efficient use of testing facilities within a country by coordinating existing capabilities.
- 5 " Add to the credibility and give additional status to competent laboratories.
- 6 " Promote good testing practices.
- 7 " Improve testing methods by providing feedback to standards-producing bodies on the adequacy of test methods.
- 8 " Provide technical and other information to accredited laboratories
- 9 " Facilitate establishment of mutual recognition agreements.

ACCREDITATION

Third-party attestation related to a conformity assessment body conveying formal demonstration of its competence to carry out specific conformity assessment mark +

ISO/IEC 17011:2004

Accreditation body (AB) is the authoritative body that performs accreditation and the authority of an AB is generally derived from the government.

CERTIFICATION

~ Procedure by which a third party (certification body) gives a written assurance that a product, process or service (of an organisation) conforms to specified requirements.

ISO/IEC Guide 2:1996

- ~ *Certification does not specifically evaluate technical competence.*
- ~ *Certification is not appropriate for laboratories or inspection bodies.*

ACCREDITATION

Accreditation to ISO/IEC 17025 ...

- “ Assures the customer that the procedures are technically valid
- “ Recognizes the technical competence of laboratory staff
- “ Assures the customer that the results are technically valid
- “ Endorses the quality management system

ACCREDITATION VERSUS CERTIFICATION

CERTIFICATION = CONFORMITY

ACCREDITATION =



ACCREDITATION PROCESS



Application and
submission

Adequacy audit

Pre-assessment
audit

Compliance
audit

Surveillance
audit (yearly)

Re-assessment
audit (3 years)

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CONFORMITY ASSESSMENT

Accreditation Body



Competence (*accreditation*)

Conformity Assessment Bodies

Certification
Bodies

Testing/Calibration
Laboratories

Inspection
Bodies



Compliance (*certification*)

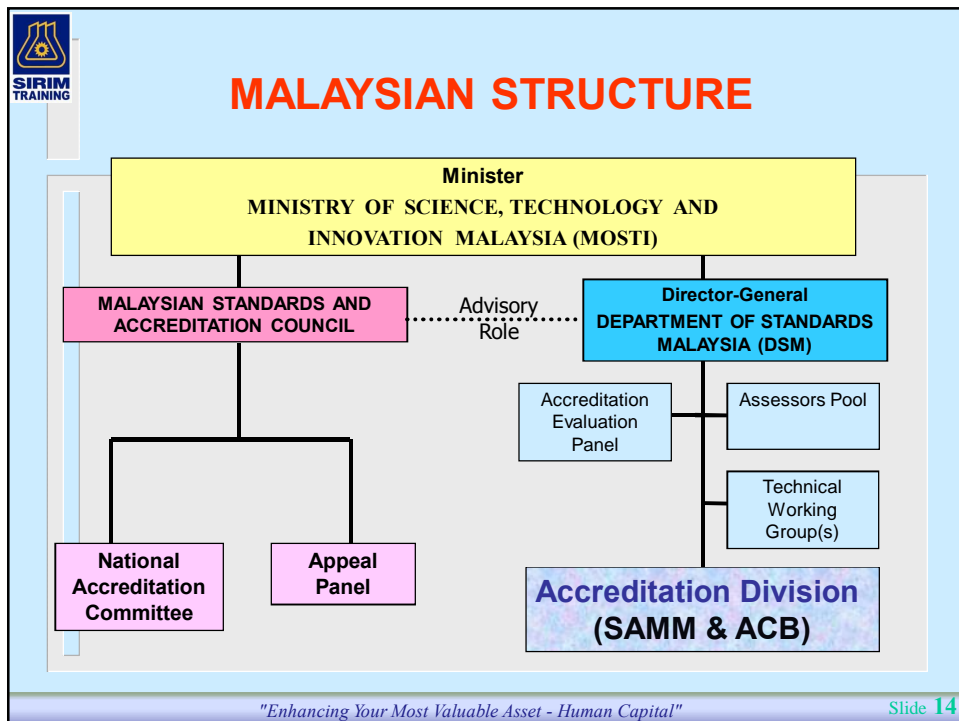
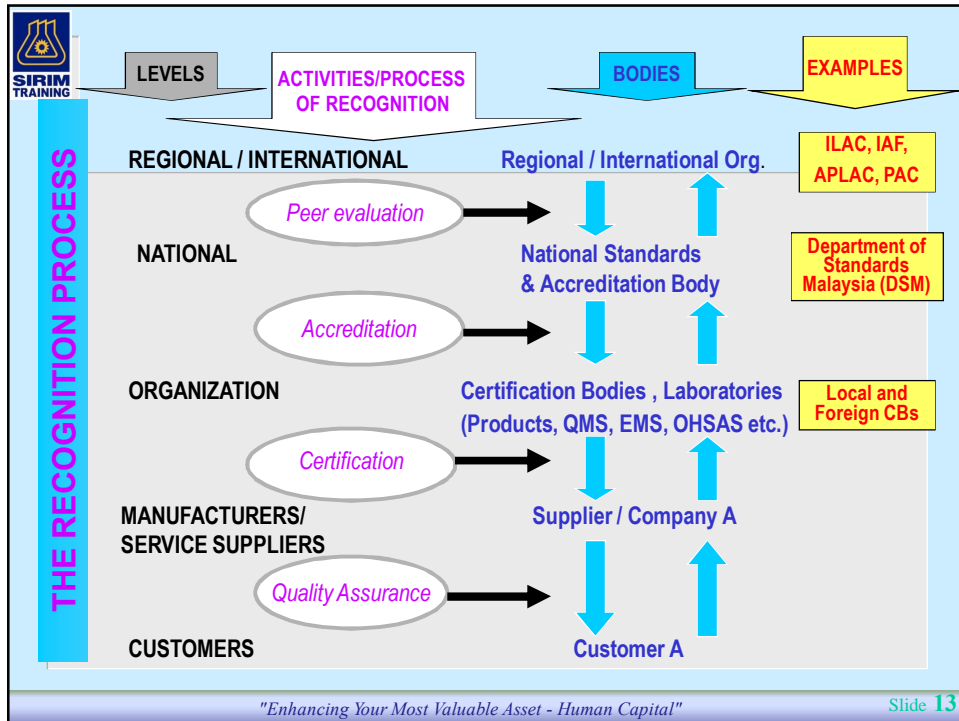
Products/Services



Suppliers/Manufacturers

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MS ISO/IEC 17025 : 2005

GENERAL REQUIREMENTS FOR THE COMPETENCE OF TESTING AND CALIBRATION LABORATORIES

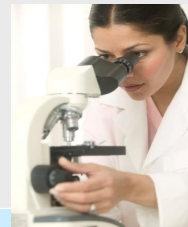


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Accreditation Requirements:

- ❖ Standards MS ISO/IEC 17025:2005
AND/OR MS ISO 15189:2007
- ❖ SAMM Policies (SP)
- ❖ Specific Technical Requirements (STR)
- ❖ Specific Criteria (SC)
- ❖ Measurement Uncertainty (MU)



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SAMM SCHEME FIELDS AND PROGRAMS

Accreditation Standard: ISO/IEC 17025:2005

Fields of testing:

- Chemical testing
- Microbiological testing
- Electrical testing
- Mechanical / physical testing
- Non-destructive testing
- Radioactivity testing
- Household pesticide
- Toxicity
- Electromagnetic Compatibility (EMC)
- Veterinary
- Genetically Modified Organisms (GMO)
- Nucleic Acid
- DNA Profiling for Forensic Science
- Analysis of accelerant in Fire Debris for Forensic Science

Fields of calibration:

- Heat and temperature measurements
- Mass and Mass-Related Quantities
- Electrical measurements
- Optical and Photometric measurements
- Acoustic & Vibration Measurements
- Length and dimensional measurements
- Radioactivity measurement

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SAMM SCHEME FIELDS AND PROGRAMS

Accreditation standard: ISO 15189:2003

Medical Testing :

- ~ **Anatomical pathology**
(cytopathology)
- ~ **Anatomical pathology**
(histopathology)
- ~ **Chemical pathology**
- ~ **Haematology**
- ~ **Medical microbiology**
- ~ **Medical microbiology**
(virology)

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STR -

Specific Technical Requirements



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STR : Specific Technical Requirements

Provide technical requirements specific for particular issues in certain areas of each discipline.

Specific for each field in testing and calibration as below:

STR
1.1

● Bio-efficacy of Household Pesticide

STR
1.2

● Toxicity Testing

STR
1.3

● EMC Testing (Electromagnetic Compatibility)

STR
1.4

● Veterinary Testing

STR
1.5

● GMO Testing (Genetically Modified Organisms)

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STR : Specific Technical Requirements

Specific for each field in testing and calibration as below:

STR
1.6

- Nucleic Acid Testing

STR
1.7

- DNA Profiling for Forensic Science

STR
1.8

- Accelerant in Fire Debris for Forensic Science

STR
1.9

- Document Examination for Forensic Science

STR
1.10

- Information Technology Security Evaluation and Testing (common criteria)

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STR : Specific Technical Requirements

Specific for each field in testing and calibration as below:

STR
1.11

- Dangerous Drugs & Other Controlled Substances for Forensic Science

STR
1.12

- Trace Evidence Analysis For Forensic Science Testing Laboratories

STR
1.13

- Accreditation Of Software Testing Laboratories

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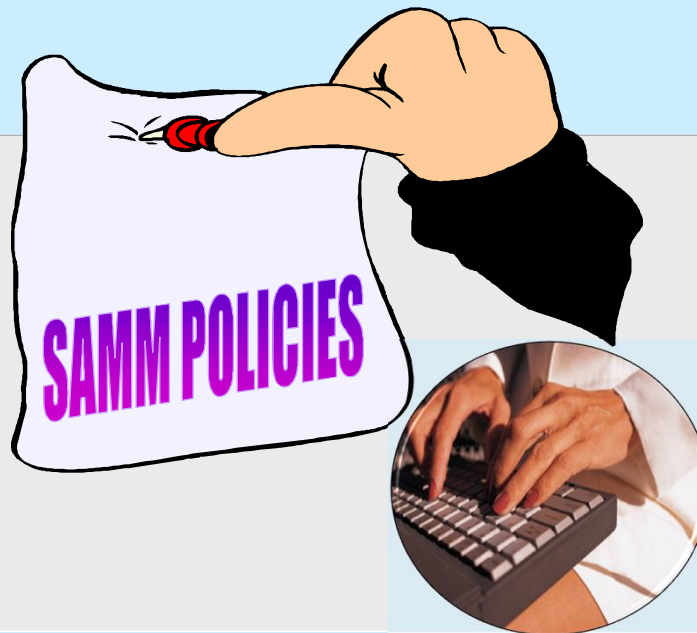
STR : Specific Technical Requirements

Specific for each field in medical testing as below:

- STR 2.1 ● Anatomical Pathology (Cytopathology)
- STR 2.2 ● Anatomical Pathology (Histopathology)
- STR 2.3 ● Chemical Pathology
- STR 2.4 ● Haematology
- STR 2.5 ● Medical Microbiology
- STR 2.6 ● Medical Microbiology (Virology)
- STR 2.7 ● Assisted Reproductive Technology (ART)
- STR 2.8 ● Cytogenetic Testing


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	<h2>POLICIES DOCUMENTS</h2>	
	SAMM Policy 1	<ul style="list-style-type: none"> ● Terms and Condition Governing the Laboratory Accreditation Scheme of Malaysia
	SAMM Policy 2	<ul style="list-style-type: none"> ● Policy on Traceability of Measurement Results
	SAMM Policy 3	<ul style="list-style-type: none"> ● Conditions for the Use of SAMM Accreditation Symbol or Reference to SAMM Accreditation
	SAMM Policy 4	<ul style="list-style-type: none"> ● Policy on Proficiency Testing Requirements for SAMM Laboratories
	SAMM Policy 5	<ul style="list-style-type: none"> ● Policy on Measurement Uncertainty Requirements for SAMM Testing Labs
<p><i>Your Most Valuable Asset - Human Capital</i> Stage 25</p>		

	<h2>POLICIES DOCUMENTS</h2>	
	SAMM Policy 6	<ul style="list-style-type: none"> ● Requirements for Approved Signatory
	SAMM Policy 7	<ul style="list-style-type: none"> ● Specific Requirements on the Issue of SAMM Endorsed Calibration Certificates
	SAMM Policy 8	<ul style="list-style-type: none"> ● Requirements & Procedures for the Accreditation of Site Calibration & Testing Laboratories
	SAMM Policy 9	<ul style="list-style-type: none"> ● Specific Requirements for Measurement and Calibration System
	SAMM Policy 10	<ul style="list-style-type: none"> ● Grading of Non-Conformities
<p><i>Your Most Valuable Asset - Human Capital</i> Stage 26</p>		

TYPE OF ASSESSMENT

Application for accreditation

- Initial assessment (Adequacy Audit, Pre-assessment & compliance)

Scheduled assessment

- Surveillance / Reassessment

Variation of accreditation

- New signatories, additional tests, field facilities / relocation

Follow-up assessments

Extra ordinary / unscheduled assessments

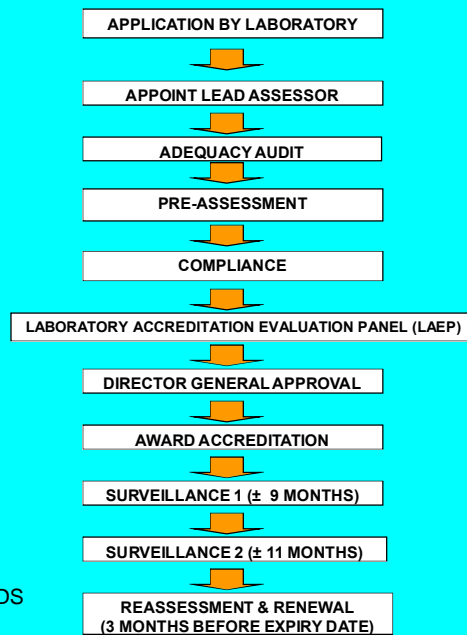
- following identification of problems
- following poor results in proficiency testing
- following major changes in laboratory organization
- investigation of complaints.



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FLOWCHART OF ACCREDITATION PROCESS



NOTE: Information on accreditation processes, refer to Document SI 1 (Available in STANDARDS MALAYSIA website).

ACCREDITATION SCHEMES

- *Skim Akreditasi Makmal Malaysia (SAMM)* - Laboratory Accreditation Scheme of Malaysia,



Old



New

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INTERNATIONAL & REGIONAL RECOGNITION (SIGNATORY) OF DEPARTMENT STANDARD MALAYSIA

1. Asia Pacific Laboratory Accreditation Cooperation (APLAC) Mutual Recognition Arrangement (MRA)

Testing Field : 14th November 2002

Calibration Field : 13th November 2003

2. International Laboratory Accreditation Co-operation (ILAC) Mutual Recognition Arrangement (MRA)

Testing Field : 16th January 2003

Calibration Field : 19th November 2003

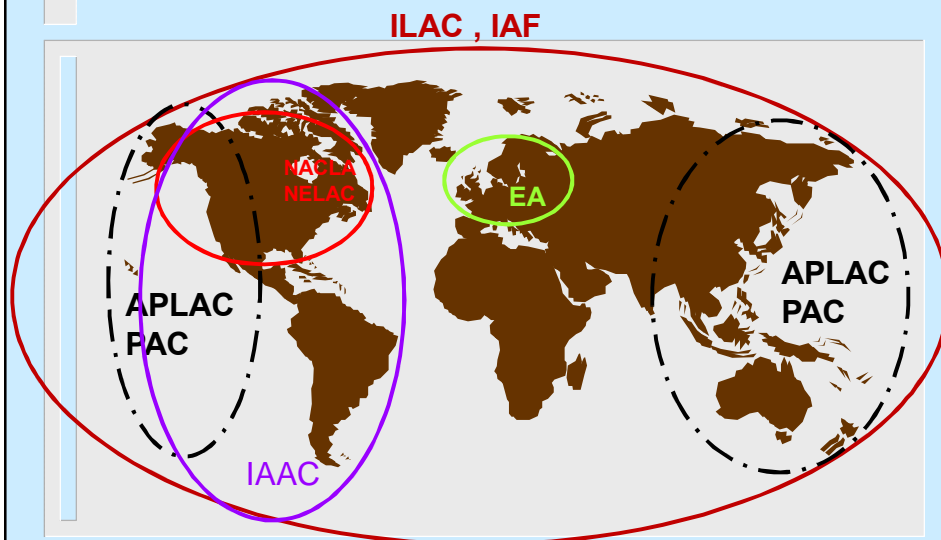
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APLAC & ILAC MRAs FOR ACCREDITATION OF TESTING/CALIBRATION LABs: ITS IMPLICATIONS

- Accredited test reports recognised by signatories:
 - 14 countries (20 organisations) for APLAC
 - 35 countries (43 organisations) for ILAC
- Avoids re-test in importing countries provided test conducted to requirements/standards required by importing countries;
- Does not mean automatic acceptance of products

INTERNATIONAL MUTUAL RECOGNITION



The following are the signatories of the APLAC MRA:

1. National Association of Testing Authorities (NATA), Australia
2. Standards Council of Canada (SCC), Canada
3. China National Accreditation Board for Laboratories (CNAL), People's Republic of China
4. Hong Kong Accreditation Service, Hong Kong, China



The following are the signatories of the APLAC MRA:

5. National Accreditation Board for Testing and Calibration Laboratories (NABL), **India**



6. Komite Akreditasi Nasional (KAN), **Indonesia**



7. The Japan Accreditation Board for Conformity Assessment (JAB), **Japan**



8. International Accreditation Japan (IAJapan), **Japan**



The following are the signatories of the APLAC MRA:

9. Voluntary EMC Laboratory Accreditation Center Inc (VLAC), **Japan**



10. Korea Laboratory Accreditation Scheme (KOLAS), Republic of Korea



11. Department of Standards Malaysia (DSM), **Malaysia**



12. International Accreditation New Zealand (IANZ), New Zealand



The following are the signatories of the APLAC MRA:

13. Singapore Accreditation Council (SAC-SINGLAS), **Singapore**



14. Chinese National laboratory Accreditation (CNLA), **Chinese Taipei**



15. TLAS, Office of the National Accreditation Council, Thai Industrial Standards Institute, **Thailand**



16. Department of Medical Sciences, **Thailand**



The following are the signatories of the APLAC MRA:

17. American Association for Laboratory Accreditation (A2LA), **USA**



18. International Accreditation Service Inc, **USA**



19. National Voluntary Laboratory Accreditation Program (NVLAP), **USA**



20. Vietnam Laboratory Accreditation Scheme (VILAS), **Vietnam**



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3 years

Issue date: 23 June 2008
Valid until: 23 June 2011

NO: SAMM 075

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LABORATORY LOCATION:
(PERMANENT LABORATORY)

HOVID BHD.
121, JALAN TUNKU ABDUL RAHMAN
30010 IPOH, PERAK

The standard used for assessment of this laboratory is MS ISO/IEC 17025:2005




FIELD OF TESTING: CHEMICAL

SCOPE OF ACCREDITATION:

Materials/ Products tested	Type of test/ Properties Measured/ Range of Measurement	Standard test method/ Equipment/Techniques
Pharmaceutical Products : (on Finished Products)	Assay of active ingredient:	
Capsules	Piroxicam Chloramphenicol Mefenamic Acid Ibuprofen Griseofulvin Ibuprofen Metoclopramide HCl Salbutamol Terbutaline Sulfate Mefenamic Acid Cephalexin Dextromethorphan HBr Pyrantel Pamoate Sulphamethoxazole Trimethoprim Loratadine Ketocanazole Bromhexine HCl	USP 28 BP 2007 BP 2007 *IH-IF-C-15 *IH-IF-C-20 *IH-HPLC-036 *IH-HPLC-044 *IH-HPLC-054 *IH-HPLC-080 *IH-HPLC-085 BP 2007 *IH-HPLC-136 USP28 *IH-HPLC-147 *IH-HPLC-079 *IH-HPLC-083 *IH-HPLC-125 *IH-HPLC-108 *IH-HPLC-195
Tablets	Imetidine Chlorpheniramine maleate	*IH-IF-C-018 *IH-IF-C-20

Notes : *IH = In-house methods
BP 2007 = British Pharmacopoeia 2007
USP 28 = United States Pharmacopoeia 28

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FIELD OF TESTING: CHEMICAL

SCOPE OF ACCREDITATION:


Materials/ Products tested	Type of test/ Properties Measured/ Range of Measurement	Standard test method/ Equipment/Techniques
Pharmaceutical Products : (on Finished Products)	Assay of active ingredient:	
Soft Capsules	Vitamin E Tocotrienols	*IH-HPLC-091 *IH-HPLC-186
Oral Liquids	Chlorpheniramine Maleate Ketotifen Fumarate Methyl Paraben & Propyl Paraben Sodium Citrate Dihydrate Salbutamol	*IH-HPLC-133 *IH-HPLC-135 *IH-HPLC-056 *IH-HPLC-117 *IH-HPLC-237
Creams	Hydrocortisone Methyl Salicylate Menthol Kerocin	*IH-HPLC-141 *IH-GC-061 *IH-GC-062 *IH-HPLC-194
Tablets/Capsules	Disintegration Test Uniformity of Mass	USP 29 USP 31
Chemical Products : (on Finished Products)	Assay of active ingredient:	
Tablets	Available Chlorine in Sodium Dichloroisocyanurate	*IH-TIT-184


Notes : *IH = In-house methods
BP 2007 = British Pharmacopoeia 2007

Signatories:

1. Ng Choon Heng	IKM No. A 2587/95
2. See Lee Lan	IKM No. L 2717/96
3. Mah Huey Jiuin	IKM No. A 5255/2008
4. Yuen Yen Le	IKM No. A5253/2008

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FIELD OF TESTING: MICROBIOLOGICAL

SCOPE OF ACCREDITATION:

Materials/ Products tested	Type of test/ Properties Measured/ Range of Measurement	Standard test method/ Equipment/Techniques
Pharmaceutical Products : (on Finished Products)	Microbiological assay of active ingredient :	
Tablets	Erythromycin Stearate	*IH-MICRO-030
Granules	Erythromycin Ethylsuccinate	*IH-MICRO-043
Cream	Neomycin Sulphate Sodium Chloride	*H-IFD-047 *H-IFD-128
Injections	Bacterial Endotoxin Test (LAL)	USP 28
Sterile products	Sterility Test	BP 2007

Notes : *IH = In-house methods
BP 2007 = British Pharmacopoeia 2007
USP 28 = United States Pharmacopoeia 28

Signatory:

1. See Lee Lan	IKM No. L 2717/96
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END OF SESSION 2

THANK YOU VERY MUCH