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LABORATORY LOCATION/ CENTRAL OFFICE:	Entomology Research Centre, Fumakilla Malaysia Berhad Plot No. 256, Tingkat Perusahaan 5 Kawasan Perindustrian Prai 2 13600 Prai, Pulau Pinang , 13600, PULAU PINANG MALAYSIA
	
ACCREDITED SINCE :	24 JUNE 2025
FIELD(S) OF TESTING:	BIOLOGICAL (HOUSEHOLD PESTICIDES) CHEMICAL BIOLOGICAL (HOUSEHOLD PESTICIDES) CHEMICAL (HOUSEHOLD PESTICIDES)

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 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 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	Entomology Research Centre, Fumakilla Malaysia Berhad Plot No. 256, Tingkat Perusahaan 5 Kawasan Perindustrian Prai 2 13600 Prai, Pulau Pinang , 13600, Pulau Pinang
FIELD(S) OF TESTING :	BIOLOGICAL, CHEMICAL, BIOLOGICAL, CHEMICAL

SCOPE OF TESTING : BIOLOGICAL (HOUSEHOLD PESTICIDES)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Mosquito Coil	Biological Efficacy Testing conducted on laboratory cultured mosquitoes	Malaysian Standard MS 23 : 2017 Annex D Peet Grady Method Clause D.2 (ERC-BEL-003)
	Biological Efficacy Testing conducted on laboratory cultured mosquitoes	In-house Test Method (ERC-BEL-013)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Mosquito Electric Vapourising Liquid	Biological Efficacy Testing conducted on laboratory cultured mosquitoes	Malaysian Standard MS 1911: Part 2 : 2006 Peet Grady Method Clause 6.2.1 (ERC-BEL-006)
Mosquito Vapourising Mat	Biological Efficacy Testing conducted on laboratory cultured mosquitoes	Malaysian Standard MS 1911: Part 2 : 2006 Peet Grady Method Clause 6.2.2 (ERC-BEL-005)
Insecticide Aerosol	Biological Efficacy Testing conducted on laboratory cultured mosquitoes / houseflies	Malaysian Standard MS 1257 : 2021 Annex H Peet Grady Method Clause H.2 (ERC-BEL-004)
	Biological Efficacy Testing conducted on laboratory cultured cockroaches	Malaysian Standard MS 1255 : 2021 Annex H Plaque Method Clause H.2 (ERC-BEL-012)
	Biological Efficacy Testing conducted on laboratory cultured cockroaches	Malaysian Standard MS 1255 : 2021 Annex H Cylinder Method Clause H.1 (ERC-BEL-011)
Personal Mosquito Repellent	Biological Efficacy Testing conducted on laboratory cultured mosquitoes	Malaysian Standard MS 1497 : 2007 Screen-Cage Method (ERC-BEL-010)
Cockroach Bait	Biological Efficacy Testing conducted on laboratory cultured cockroaches	Malaysian Standard MS 1326 : 2022 Clause 4.3 1 Square Meter Tank Method (ERC-BEL-014)
Ant Bait	Biological Efficacy Testing conducted on laboratory cultured ants	Malaysian Standard MS 1985 : 2007 Aluminium Tray Method (ERC-BEL-015)

SCOPE OF TESTING : BIOLOGICAL (HOUSEHOLD PESTICIDES)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Mosquito Coil	Biological Efficacy Testing conducted on laboratory cultured mosquitoes	Malaysian Standard MS 23 : 2017 Annex D Peet Grady Method Clause D.2 (ERC-BEL-003)
	Biological Efficacy Testing conducted on laboratory cultured mosquitoes	In-house Test Method (ERC-BEL-013)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Mosquito Electric Vapourising Liquid	Biological Efficacy Testing conducted on laboratory cultured mosquitoes	Malaysian Standard MS 1911: Part 2 : 2006 Peet Grady Method Clause 6.2.1 (ERC-BEL-006)
Mosquito Vapourising Mat	Biological Efficacy Testing conducted on laboratory cultured mosquitoes	Malaysian Standard MS 1911: Part 2 : 2006 Peet Grady Method Clause 6.2.2 (ERC-BEL-005)
Insecticide Aerosol	Biological Efficacy Testing conducted on laboratory cultured mosquitoes / houseflies	Malaysian Standard MS 1257 : 2021 Annex H Peet Grady Method Clause H.2 (ERC-BEL-004)
	Biological Efficacy Testing conducted on laboratory cultured cockroaches	Malaysian Standard MS 1255 : 2021 Annex H Plaque Method Clause H.2 (ERC-BEL-012)
	Biological Efficacy Testing conducted on laboratory cultured cockroaches	Malaysian Standard MS 1255 : 2021 Annex H Cylinder Method Clause H.1 (ERC-BEL-011)
Personal Mosquito Repellent	Biological Efficacy Testing conducted on laboratory cultured mosquitoes	Malaysian Standard MS 1497 : 2007 Screen-Cage Method (ERC-BEL-010)
Cockroach Bait	Biological Efficacy Testing conducted on laboratory cultured cockroaches	Malaysian Standard MS 1326 : 2022 Clause 4.3 1 Square Meter Tank Method (ERC-BEL-014)
Ant Bait	Biological Efficacy Testing conducted on laboratory cultured ants	Malaysian Standard MS 1985 : 2007 Aluminium Tray Method (ERC-BEL-015)

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Mosquito Coil	Quantitative determination of dimefluthrin	In-house Test Method Gas Chromatography using Electron Capture Detector (GCECD) (ERC-GCL-003)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Quantitative determination of pyrethroid: • Prallethrin • <i>d</i> -allethrin (Esbiothrin, Bioallethrin, S-bioallethrin)	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-012)
	Quantitative determination of pyrethroids: • Dimefluthrin • Meperfluthrin • Metofluthrin	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-025)
Vaporizing Liquid	Quantitative determination of metofluthrin	In-house Test Method Gas Chromatography using Flame Ionisation Detector (GC-FID) (ERC-GCL-004)
Oil-based Aerosol	Quantitative determination of pyrethroids: • Transfluthrin • Dimefluthrin • <i>d</i> -allethrin (Esbiothrin, Bioallethrin and S-bioallethrin) • Prallethrin • Imiprothrin • <i>d</i> -tetramethrin • <i>d</i> -phenothrin • Cyphenothrin • Permethrin • Cyfluthrin • Cypermethrin	In-house Test Method Gas Chromatography using Flame Ionisation Detector (GC-FID) (ERC-GCL-005)
	Quantitative determination of pyrethroids: • Dimefluthrin • Meperfluthrin • Metofluthrin • Transfluthrin • <i>d</i> -allethrin (Esbiothrin, Bioallethrin and S-bioallethrin) • Prallethrin • Imiprothrin • <i>d</i> -phenothrin • <i>d</i> -tetramethrin • Cyphenothrin • Permethrin • Cyfluthrin • Cypermethrin	In-house Test Method Gas Chromatography using Flame Ionisation Detector (GC-FID) (ERC-GCL-026)
Water-based Aerosol	Quantitative determination of pyrethroid: • Transfluthrin • Cyfluthrin	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-022)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Vaporising Mat	Quantitative determination of pyrethroid: • Metofluthrin • Dimefluthrin • Meperfluthrin	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) with Solid Phase Extraction Clean-Up (ERC-GCL-013)
Bait	Quantitative determination of chlorpyrifos	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-020)
Mosquito Repellent	Quantitative determination of: • Icaridin • DEET (N,N-diethyl-metatoluamide)	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-018)
Mini Aerosol	Quantitative determination of transfluthrin	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-011)

SCOPE OF TESTING : CHEMICAL (HOUSEHOLD PESTICIDES)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Mosquito Coil	Quantitative determination of dimefluthrin	In-house Test Method Gas Chromatography using Electron Capture Detector (GCECD) (ERC-GCL-003)
	Quantitative determination of pyrethroid: • Prallethrin • <i>d</i> -allethrin (Esbiothrin, Bioallethrin, S-bioallethrin)	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-012)
	Quantitative determination of pyrethroids: • Dimefluthrin • Meperfluthrin • Metofluthrin	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-025)
Vaporizing Liquid	Quantitative determination of metofluthrin	In-house Test Method Gas Chromatography using Flame Ionisation Detector (GC-FID) (ERC-GCL-004)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Oil-based Aerosol	Quantitative determination of pyrethroids: • Transfluthrin • Dimefluthrin • <i>d</i> -allethrin (Esbiothrin, Bioallethrin and S-bioallethrin) • Prallethrin • Imiprothrin • <i>d</i> -tetramethrin • <i>d</i> -phenothrin • Cyphenothrin • Permethrin • Cyfluthrin • Cypermethrin	In-house Test Method Gas Chromatography using Flame Ionisation Detector (GC-FID) (ERC-GCL-005)
	Quantitative determination of pyrethroids: • Dimefluthrin • Meperfluthrin • Metofluthrin • Transfluthrin • <i>d</i> -allethrin (Esbiothrin, Bioallethrin and S-bioallethrin) • Prallethrin • Imiprothrin • <i>d</i> -phenothrin • <i>d</i> -tetramethrin • Cyphenothrin • Permethrin • Cyfluthrin • Cypermethrin	In-house Test Method Gas Chromatography using Flame Ionisation Detector (GC-FID) (ERC-GCL-026)
Water-based Aerosol	Quantitative determination of pyrethroid: • Transfluthrin • Cyfluthrin	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-022)
Vaporising Mat	Quantitative determination of pyrethroid: • Metofluthrin • Dimefluthrin • Meperfluthrin	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) with Solid Phase Extraction Clean-Up (ERC-GCL-013)
Bait	Quantitative determination of chlorpyrifos	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-020)
Mosquito Repellent	Quantitative determination of: • Icaridin • DEET (N,N-diethyl-metatoluamide)	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-018)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Mini Aerosol	Quantitative determination of transfluthrin	In-house Test Method Gas Chromatography using Flame Ionization Detector (GC-FID) (ERC-GCL-011)