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**LABORATORY LOCATION:**  
(PERMANENT LABORATORY)



**MPB CENTRAL TESTING LABORATORY  
QUALITY CONTROL SECTION  
MALAYSIAN PEPPER BOARD  
LOT 1115, JALAN UTAMA,  
93916 KUCHING,  
SARAWAK,  
MALAYSIA.**

**FIELDS OF TESTING: CHEMICAL, MICROBIOLOGY**

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).

**SCOPE OF TESTING: CHEMICAL**

<b>Materials/ Products Tested</b>	<b>Type of Test/ Properties Measured/ Range of Measurement</b>	<b>Standard Test Methods/ Equipment/Techniques</b>
Whole Black Pepper	Determination of Moisture Content in Whole Pepper by FT – NIR	MPB TM 19 In-house method*
	Determination of Percentage of Light Berries in Whole Pepper	MPB TM 2 In-house method based on MS 234: 2005 (Annex A)
	Determination of Extraneous Matter Content	MPB TM 4 In-house method based on MS 81: Part 1: 1993
Whole White Pepper	Determination of Moisture Content in Whole Pepper by FT – NIR	MPB TM 19 In-house method*
	Determination of Percentage of Light Berries in Whole Pepper	MPB TM 2 In-house method based on MS 234: 2005 (Annex A)
	Determination of Extraneous Matter Content	MPB TM 4 In-house method based on MS 81: Part 1: 1993
	Determination of Percentage of Black Berries in Whole White Pepper	MPB TM 3 In-house method based on MS 234: 2005 (Annex B)

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**SCOPE OF TESTING: CHEMICAL**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Pepper  1. Black Pepper (Whole/Ground)  Or  2. White Pepper (Whole / Ground)	Determination of Multi-Pesticide Residues in Pepper by GC-MS/MS  Pesticide Residues:  1. Diazinon 2. Chlorpyrifos-methyl 3. Fenitrothion 4. Pirimiphos-methyl 5. Chlorpyrifos 6. Pirimiphos-ethyl 7. Quinalphos 8. Phosalane  (Range: 10ppb-1000ppb)	In-house method IM-21 based on Modified QuEChERS / GC-MS/MS

**Note:**

- MPB TM 2 In-house method based on MS 234: 2005 (Annex A) Determination of Percentage of Light Berries in Whole Pepper.
- MPB TM 3 In-house method based on MS 234: 2005 (Annex B) Determination of Percentage of Black Berries in Whole Pepper.
- MPB TM 4 In-house method based on MS 81: Part 1:1993 Determination of Extraneous Matter Content.
- MPB TM 19 In-house method Determination of Moisture Content in Whole Pepper by FT-NIR  
(i) Justin, L., Lauren, M. and Ian, R., 2014. Determination of levels of spice adulteration using Near-infrared Spectroscopy. Perkin Elmer Application Note.  
(ii) Liu, Y.D., Ying, Y.B. and Fu, X.P. 2005. Prediction of valid acidity in intact apples with Fourier Transform Near Infrared Spectroscopy. J. Zhejiang Univ Sci. 6B(3):158-164.  
(iii) Asta Method 2.0 of the Official Analytical Methods of the American Spice Trade Association (4th Edition 1997).

**Signatories:**

1. **Ling Jing Jing** **IKM No. L/2496/7462/16**
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**SCOPE OF TESTING: MICROBIOLOGY**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Pepper  1. Black pepper (whole/ ground); or  2. White pepper (whole/ground)	Aerobic Plate Count	FDA-BAM Chapter 3; 2021
	Total Coliform Count	FDA-BAM Chapter 4; 2020
	Fecal Coliform Count	FDA-BAM Chapter 4; 2020
	<i>Escherichia coli</i>	FDA-BAM Chapter 4; 2020
	<i>Salmonella</i>	FDA-BAM Chapter 5; 2021
	Yeasts and Molds	FDA-BAM Chapter 18; 2017

**Signatories:**

- |                                     |           |
|-------------------------------------|-----------|
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