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LABORATORY LOCATION/ CENTRAL OFFICE: 	Halvec Laboratories Sdn. Bhd. G-E-4, Level G, Enterprise 4, Technology Park Malaysia, Lebuhraya Puchong-Sg. Besi, Bukit Jalil 57000 Kuala Lumpur Malaysia , 57000, SELANGOR MALAYSIA
ACCREDITED SINCE :	11 JUNE 2025
FIELD(S) OF TESTING:	CHEMICAL NUCLEIC ACID MICROBIOLOGICAL

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:	Halvec Laboratories Sdn. Bhd. G-E-4, Level G, Enterprise 4, Technology Park Malaysia, Lebuhraya Puchong-Sg. Besi, Bukit Jalil 57000 Kuala Lumpur Malaysia , 57000, Selangor
FIELD(S) OF TESTING :	CHEMICAL, NUCLEIC ACID, MICROBIOLOGICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Foods Meat, Poultry & Derived products	Test for Porcine Meat	In-House Method HV/TM/BCLAB/001 Based on Rapid Porcine Meat (Raw) Detection Halkit – Qualitative
	Test for Porcine Meat	In-House Method HV/TM/BCLAB/002 Based on Rapid Porcine Meat (Processed) Detection Halkit – Qualitative

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Crude Ash	HV/TM/BCLAB/031 Based on Pearson's Composition and Analysis of Foods; 9 th Edition, Page 13.
	Moisture Content	In-House Method HV/TM/BCLAB/032 Based on AOAC, K. Helrich, 1990.
	Protein Content	In-House Method HV/TM/BCLAB/033 Based on Gerhardt Dumatherm Instruction Manual, Rev.04, Feb 2013.
	Total Fat Analysis	In-House Method HV/TM/BCLAB/035 Based on Gerhardt Analytical System, Validation Study: Total Fat Content by Automated Acid Hydrolysis (HYDROTHERM): ISO 8262-1
	Total Carbohydrate (by calculation)	HV/TM/BCLAB/038, December 2010, Malaysia Guideline to Nutritional Labeling and Claims
	Energy (by calculation)	HV/TM/BCLAB/039, December 2010, Malaysia Guideline to Nutritional Labeling and Claims
Foods Edible Oils, Fats And Their Products	Crude Ash	HV/TM/BCLAB/031 Based on Pearson's Composition and Analysis of Foods; 9th Edition, Page 13.
	Moisture Content	In-House Method HV/TM/BCLAB/032 Based on AOAC, K. Helrich, 1990.
	Protein Content	In-House Method HV/TM/BCLAB/033 Based on Gerhardt Dumatherm Instruction Manual, Rev.04, Feb 2013.

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Total Fat Analysis	In-House Method HV/TM/BCLAB/035 Based on Gerhardt Analytical System, Validation Study: Total Fat Content by Automated Acid Hydrolysis (HYDROTHERM): ISO 8262-1
	Total Carbohydrate (by calculation)	HV/TM/BCLAB/038, December 2010, Malaysia Guideline to Nutritional Labeling and Claims
	Energy (by calculation)	HV/TM/BCLAB/039, December 2010, Malaysia Guideline to Nutritional Labeling and Claims
	Test for Porcine Protein in Fat/Oil	In-House Method HV/TM/BCLAB/003 Based on Rapid Porcine (Fat/Oil) Detection Halkit – Qualitative
	Test for Porcine Protein in Fat/Oil	In-House Method HV/TM/BCLAB/009 Based on ELISA Porcine Fat/Oil Detection Halkit – Qualitative
Foods Non-alcoholic Beverages Dairy Products Fish & Fish Products Flour And Confectionary Food Additives Nuts And Nuts Products Sauces, Herbs, Spices & Condiments Sugars And Sugar Products	Crude Ash	HV/TM/BCLAB/031 Based on Pearson's Composition and Analysis of Foods; 9th Edition, Page 13
	Moisture Content	In-House Method HV/TM/BCLAB/032 Based on AOAC, K. Helrich, 1990.
	Protein Content	In-House Method HV/TM/BCLAB/033 Based on Gerhardt Dumatherm Instruction Manual, Rev.04, Feb 2013.
	Total Fat Analysis	In-House Method HV/TM/BCLAB/035 Based on Gerhardt Analytical System, Validation Study: Total Fat Content by Automated Acid Hydrolysis (HYDROTHERM): ISO 8262-1
	Total Carbohydrate (by calculation)	HV/TM/BCLAB/038, December 2010, Malaysia Guideline to Nutritional Labeling and Claims

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	Energy (by calculation)	HV/TM/BCLAB/039, December 2010, Malaysia Guideline to Nutritional Labeling and Claims
Gelatin And Gelatin Products	Test for Porcine Protein in Gelatin/Collagen	In-House Method HV/TM/BCLAB/005 Based on Rapid Porcine (Gelatin) Detection Halkit – Qualitative
	Test for Porcine Protein in Gelatin/Collagen	In-House Method HV/TM/BCLAB/007 Based on ELISA Porcine Gelatin Detection Halkit – Qualitative
Non-alcoholic Beverages Sauces, Herbs, Spices And Condiments	Alcohol (Ethanol)	In-House Method HV/TM/BCLAB/026 Based on Shimadzu Application News No. AD-0107: Ensuring Halal Food Integrity by Detection of Ethanol in Beverages and Oral Rinses using Gas Chromatography (GC)
Cosmetics & Essential Oils Cosmetics And Toiletries/ Collagen-based Samples	Test for Porcine Protein in Gelatin/Collagen	In-House Method HV/TM/BCLAB/007 Based on ELISA Porcine Gelatin Detection Halkit – Qualitative
Cosmetics & Essential Oils Soap Bar	Test for Porcine Protein in Fat/Oil	In-House Method HV/TM/BCLAB/009 Based on ELISA Porcine Fat/Oil Detection Halkit – Qualitative
Cosmetics & Essential Oils Lip Balm	Test for Porcine Protein in Fat/Oil	In-House Method HV/TM/BCLAB/009 Based on ELISA Porcine Fat/Oil Detection Halkit – Qualitative

SCOPE OF TESTING : NUCLEIC ACID

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Foods Raw Meat/ Plant/ Gelatin processed Meat/ Plant/ Gelatin highly Processed Meat/ Plant/ Gelatin	Mitochondrial Gene - Goat	In-House Method HV/TM/MBLAB/004 Based on Detection of Goat DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Chicken	In-House Method HV/TM/MBLAB/004 Based on Detection of Chicken DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Buffalo	In-House Method HV/TM/MBLAB/004 Based on Detection of Buffalo DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene – Sheep	In-House Method HV/TM/MBLAB/004 Based on Detection of Sheep DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Fish	In-House Method HV/TM/MBLAB/004 Based on Journal of Food Protection, Vol. 68, 2005, No.11, Pages 2420 2426
	DNA Extraction	In-House Method HV/TM/MBLAB/002 Quality Control for DNA Extraction Using Spectrophotometer
	DNA Extraction	In-House Method HV/TM/MBLAB/003 Screening Using Agarose Gel Electrophoresis
	DNA Extraction	In-House Method HV/TM/MBLAB/009 Based on DNA Extraction Using In- House CTAB Method
	Plant and Vertebrate DNA	In-House Method HV/TM/MBLAB/005 Based on DNA Real -Time PCR Halkit (Screening of Plant and/or Vertebrate Origin)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Porcine DNA	In-House Method HV/TM/MBLAB/006 Based on Porcine DNA Real- Time PCR Halkit II
	Mitochondrial Gene - Cattle	In-House Method HV/TM/MBLAB/004 Based on Detection of Cattle DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Horse	In-House Method HV/TM/MBLAB/004 Based on Detection of Horse DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
Biological Specimens Specified Veterinary Specimens/bristle Brush Other Biological Specimens	DNA Extraction	In-House Method HV/TM/MBLAB/002 Quality Control for DNA Extraction Using Spectrophotometer
	DNA Extraction	In-House Method HV/TM/MBLAB/003 Screening Using Agarose Gel Electrophoresis
	DNA Extraction	In-House Method HV/TM/MBLAB/009 Based on DNA Extraction Using In- House CTAB Method
	Plant and Vertebrate DNA	In-House Method HV/TM/MBLAB/005 Based on DNA Real -Time PCR Halkit (Screening of Plant and/or Vertebrate Origin)
	Porcine DNA	In-House Method HV/TM/MBLAB/006 Based on Porcine DNA Real- Time PCR Halkit II

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Mitochondrial Gene - Cattle	In-House Method HV/TM/MBLAB/004 Based on Detection of Cattle DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Horse	In-House Method HV/TM/MBLAB/004 Detection of Horse DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Goat	In-House Method HV/TM/MBLAB/004 Based on Detection of Goat DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Chicken	In-House Method HV/TM/MBLAB/004 Based on Detection of Chicken DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Buffalo	In-House Method HV/TM/MBLAB/004 Based on Detection of Buffalo DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Sheep	In-House Method HV/TM/MBLAB/004 Based on Detection of Sheep DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Fish	In-House Method HV/TM/MBLAB/004 Based on Journal of Food Protection, Vol. 68, 2005, No.11, Pages 2420 2426
Leather Natural Leather/skin Lining synthetic Leather/skin Lining others	DNA Extraction	In-House Method HV/TM/MBLAB/002 Quality Control for DNA Extraction Using Spectrophotometer

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	DNA Extraction	In-House Method HV/TM/MBLAB/003 Screening Using Agarose Gel Electrophoresis
	DNA Extraction	In-House Method HV/TM/MBLAB/009 Based on DNA Extraction Using In- House CTAB Method
	Plant and Vertebrate DNA	In-House Method HV/TM/MBLAB/005 Based on DNA Real -Time PCR Halkit (Screening of Plant and/or Vertebrate Origin)
	Porcine DNA	In-House Method HV/TM/MBLAB/006 Based on Porcine DNA Real- Time PCR Halkit II
	Mitochondrial Gene - Cattle	In-House Method HV/TM/MBLAB/004 Based on Detection of Cattle DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Horse	In-House Method HV/TM/MBLAB/004 Detection of Horse DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Goat	In-House Method HV/TM/MBLAB/004 Based on Detection of Goat DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Mitochondrial Gene - Chicken	In-House Method HV/TM/MBLAB/004 Based on Detection of Chicken DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Buffalo	In-House Method HV/TM/MBLAB/004 Based on Detection of Buffalo DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Sheep	In-House Method HV/TM/MBLAB/004 Based on Detection of Sheep DNA by Specific Single-Species Conventional Polymerase Chain Reaction (PCR)
	Mitochondrial Gene - Fish	In-House Method HV/TM/MBLAB/004 Based on Journal of Food Protection, Vol. 68, 2005, No.11, Pages 2420-2426

SCOPE OF TESTING : MICROBIOLOGICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Foods Nuts And Nut Products dairy Products meat And Meat Products fish And Fish Products poultry Products eggs Products edible Fats And Oils beverages Other Food Products	Total Plate Count	HV/TM/MCLAB/001 FDA's Bacteriological Analytical Manual (BAM) Method Chapter 3: 2001 Aerobic Plate Count, Page 1 -4 (Spread Plate Technique)
	Total Coliform Count	HV/TM/MCLAB/002 FDA's Bacteriological Analytical Manual (BAM) Method Chapter 4: 2020 Enumeration of Escherichia Coli and the Coliform Bacteria, Page 1-5, 7 (Pour Plate Technique)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Total Mold & Yeast Count	HV/TM/MCLAB/003 FDA's Bacteriological Analytical Manual (BAM) Method Chapter 18: 2001 Yeasts, Molds and Mycotoxins, Page 2- 4 (Spread Plate Technique)
	Detection of <i>Escherichia coli</i>	In-house Method HV/TM/MCLAB/004 based on FDA's Bacteriological Analytical Manual (BAM) Method
	Detection of <i>Salmonella spp.</i>	In-house Method HV/TM/MCLAB/004 based on FDA's Bacteriological Analytical Manual (BAM) Method
	Detection of <i>Staphylococcus aureus</i>	In-house Method HV/TM/MCLAB/004 based on FDA's Bacteriological Analytical Manual (BAM) Method
	Detection of <i>Pseudomonas aeruginosa</i>	In-house Method HV/TM/MCLAB/004 based on Merck Microbiological Manual

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