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LABORATORY LOCATION:
(PERMANENT LABORATORY)
BIO SYNERGY LABORATORIES SDN. BHD.
NO. 43, JALAN SS 22/23
DAMANSARA JAYA
47400 PETALING JAYA, SELANGOR
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

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Products: <ul style="list-style-type: none"> Non-alcoholic beverages Fruits & Vegetables & Derived Products Sauces, Herbs, Spices & Condiments Flour and Confectionery Fish products 	Benzoic Acid Sorbic Acid	In-house method CCF-01, Rev B, based on Journal Chromatography A, 1073 (2005) 393-397
Food Products: <ul style="list-style-type: none"> Juice Jelly Products Herbs spices Coffee Tea Frozen Food Seafood Flour & Confectionaries Food Additives Supplement Feed product Edible Fats, Oil & their products Cocoa and Cocoa Products 	Metals/Minerals Lead Cadmium Tin Calcium Magnesium Iron Zinc Copper Sodium Potassium Antimony Chromium Nickel	In-house method CCF-03, based on AOAC 999.11 and APHA 3120 B
	Mercury	In-house method CCF-04, based on AOAC 971.21 and APHA 3120 B
	Arsenic	In-house method CCF-05, based on AOAC 986.15 and APHA 3120 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
Food Products: <ul style="list-style-type: none"> Coffee & Coffee products 	Caffeine content Coffee content	MS 1360:1994 (Appendices A and G)
Food Products: <ul style="list-style-type: none"> Juice Sauces, Herbs, Spices & Condiments Non Alcoholic Beverages Flour and Confectionery Meat, Poultry & Derived Products Cocoa and Cocoa Products Frozen Food 	Moisture Protein / Nitrogen Ash Crude Fiber Crude Fat Total Fat Total Carbohydrate Energy Content as Calories Total Sugar (As Invert)	In-house method CCF-07, based on MS ISO 6496 : 2003 In-house method CCF-06, based on AOAC 2001.11, ISO 1871 : 2009 In-house method CCF-09, based on AOAC 942.05 In-house method CCF-13, based on MS ISO 6865 : 2003 In-house method CCF-12, based on MS 1416 : 1997 In-house method CCF-08, based On Pearson's Chemical Analysis of Food, 8 th Ed, 1990, pg 20-23 Method of analysis for nutrition labelling, Chapter 1, 1993 Method of analysis for nutrition labelling, Chapter 1, 1993 In-house method CCF-21 based on AOAC 968.28
Food Products: <ul style="list-style-type: none"> Edible oil, fats and derived products Cereal, Flour & Confectionery Sauces, Herbs, Spices & Condiments Feed Nuts 	Aflatoxins B1, B2, G1, G2	In House method based on AOAC 2013.05(2013) and AOAC 994.08 (2000)
Raw meat and processed meat	Determination of fat (crude) or ether extract in meat	AOAC official method 960.39 (Part A)

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Products: <ul style="list-style-type: none"> • Infant food and dairy products • Vegetable products with high protein and starch • Vegetable and pickled products • Spices and condiment • Poultry and aquatic products • Meat and meat products • Animal feed 	Determination of sodium chloride (NaCl) in food and animal feed	In House Method CCF-32, based on GB 5009.44 - 2016 (Mohr method)
Food Products <ul style="list-style-type: none"> • Milk and milk products • Edible oil, fats and derived products • Egg & egg products • Frozen products (processed food) • Cereal, Flour & Confectionery • Food supplements • Meat, poultry & derived products • Nuts, fruit, vegetables & derived product • Non-alcoholic beverage • Juices • Cocoa & Cocoa products • Sauces, Herbs, Spices & Condiments 	Vitamin A	In House Method CCF-38 based on ASEAN Manual of Food Analysis 2011 pg 81-87 & BS EN 12823-1:2000
	Vitamin C	In-House Method CCF-40 based on BS EN 14130:2003 and USP43 (2020)
	Vitamin D	AOAC Method 2002.05 (21 st edition, 2019)
	Vitamin E	In-House Method CCF-39 based on ASEAN Manual of Food Analysis 2011, pg 81-87
	Cholesterol	In-House Method CCF-24 based on GB 5009.128-2016
	Sugar (Fructose, Glucose, Sucrose, Maltose, Lactose) Total Sugar (By Calculation)	In-House Method CCF-23 based on GB 5009.8-2016
	Total Dietary Fibre	AOAC Method 985.29
	Fatty Acid Composition Saturated Fat Monounsaturated Fat Polyunsaturated Fat Trans Fat	In-House Method CCF-26 based on AOAC 996.06 and MPOB p3.5 (AOAC 21 st edition, 2019, MPOB 2005)

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Products Sugar and its product Birdnest and its product Meat and poultry products	Mercury	In-house method CCF-36 based on MethodsX 4 (2017) 513-523 and USEPA 3050B
	Arsenic	In-house method CCF-37 based on MethodsX 4 (2017) 513-523 and USEPA 3050B
Meat and Bird Nest	Nitrite and Nitrate	GB 5009.33-2010
Feed	Moisture	MS ISO 6496 : 2003
	Protein / Nitrogen	AOAC 2001.11
	Ash	AOAC 942.05
	Crude Fiber	MS ISO 6865 : 2003
	Crude Fat	MS 1416 : 1997
	Total Fat	In-House Method CCF-08, based On Pearson's Chemical Analysis of Food, 8 th Ed, 1990, pg 20-23
	Total Carbohydrate	In-House Method CCF-10, based on Method of analysis for nutrition labelling, Chapter 1, 1993
Feed and Seafood	Energy Content as Calories	In-House Method CCF-11, based on Method of analysis for nutrition labelling, Chapter 1, 1993
	Total Volatile Basic Nitrogen (TVBN)	In-House Method CCF-22 based on Journal of J.Life Sci.Biomed. 2(5): 187-191, 2012
Feed and Seafood	Histamine	In House Method CCF-33 based on Journal of Instrumental Analysis, Vol25, No. 4 (2006) pg 59-62
Solid fertilizer and liquid fertilizer	Total Nitrogen	MS 417: Part 3: 1994
	Total Potassium (as K ₂ O)	In house method, CCFL-01 based on MS417 : Part 5 : 1994 and ICP OES
	Total Phosphorus (as P ₂ O ₅)	In house method, CCFL-02 based on MS417 : Part 4 : 1994 and ICP OES
Edible Oil (Palm Oil and its Products)	Determination of Moisture and Volatile Matter	MPOB p2.1 Part 1
	Determination of Impurities	MPOB p2.2
	Determination of Peroxide Value	MPOB p2.3

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Edible Oil (Palm Oil and its Products)	Determination of Acidity	MPOB p2.5
	Determination of DOBI	MPOB p2.9
	Determination of Iodine Value	MPOB p3.2
	Determination of Total Fatty Matter (TFM)	MPOB p3.7
	Determination of Lovibond Colour	MPOB p4.1
	Determination of Slip Melting Point	MPOB p4.2
	Determination of Cloud Point	MPOB p4.3
Edible Oil and Fats	2-MCPD, 3MCPD Fatty Acid Esters and Glycidol Esters	AOCS Cd 29a-13 (revised 2017)
	Trace Elements Calcium Copper Iron Magnesium Nickel Silicon Lead Cadmium Sodium Phosphorus	In-House Method CCF-29 based on AOCS Ca 17-01 (7 th edition, 2017) In House Method CCF-30 based on AOCS Ca 20-99 (7 th edition, 2017)
	Determination of solid fat content (SFC)	AOCS official method Cd 16b- 93, 1999 - The direct method (Method I and II) by Low-Resolution Nuclear Magnetic Resonance

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Pharmaceutical products / Traditional products / Food Supplement	Sodium Hyaluronate	European Pharmacopoeia 5.0 (2005)
	Sodium Hyaluronate/ Hyaluronic Acid	In House Method CCP-11 based on Journal of Pharmaceutical Analysis, 2013;3(5):324-329 and United States Patent Brown et al (HPLC)
	Lovastatin	QB/T 2847-2007
	L-Glutathione	In-house method CCP-03 based on USP41 using HPLC
	Astaxanthin	In-house method CCP-05 based on USP40- NF 35 2017 using UV-VIS Spectrophotometer
Pharmaceutical <ul style="list-style-type: none"> • Powder • Tablet • Hard Gel Capsule • Soft Gel Capsule 	Cadmium Lead Arsenic Mercury	In-House Method CCP-10 based on BP 2019, Vol V
Cosmetics & Essential oils: <ul style="list-style-type: none"> • Cosmetics and Toiletries Pharmaceutical Products/Traditional Medicine: <ul style="list-style-type: none"> • Powder • Capsule (Hard/Soft) • Oil & Cream • Pill 	Metals/Minerals <ul style="list-style-type: none"> • Lead • Cadmium • Copper Mercury Arsenic	In house method CCP-01, based on BP 2013, Vol. IV, Appendix VII and APHA 3120

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Products Sugar and its product Birdnest and its product Meat and poultry products	Cadmium Lead Zinc Calcium Iron Sodium Antimony Magnesium Potassium Copper Tin Chromium Nickel	In-house method CCF-35 based on Uddin et al. Journal of Analytical Science and Technology (2016) 7:6 and USEPA 3050 B by ICP-OES
Food Products <ul style="list-style-type: none"> Alcohol & Non-alcoholic Beverages Juice Sauces, Herbs, Spices & Condiments Dried Fruits, Nut & Derived Products Flour & Confectionaries Sugar and Sugar Products 	Sulphur Dioxide	GB 5009.34:2016
Petroleum and Petroleum Products Fatty Acid Methyl Ester Biodiesel	Phosphorus	EN 14107:2003
	Calcium Potassium Magnesium Sodium	EN 14538:2006
	Iodine Value	EN 14111:2022
	Acid Value	EN 14104:2003
	Sulphated Ash	ISO 3987:2010
	Total Contamination	EN 12662:2014
	Water Content	ISO 12937:2000 (Coulometric Karl Fisher Titration)

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring Solid waste and liquid waste	Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Copper Cobalt Iron Lead Lithium Magnesium Manganese Nickel Phosphorus Potassium Selenium Silicon Silver Sodium Strontium Titanium Tin Zinc Molybdenum Vanadium Thallium	USEPA 6010 D (ICP OES) USEPA 3050 B (Acid Digestion) USEPA 3010 A (Acid Digestion)
Solid Waste	Corrosivity (pH)	USEPA 9045 D (pH meter), 2004
Liquid Waste	Corrosivity (pH)	APHA 4500-H+ B (pH meter), 2017

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring Palm Oil Mill Effluent (POME), Rubber Effluent, Water and Waste Water	Mixed Liquor Suspended Solid (MLSS) Mixed Liquor Volatile Suspended Solid (MLVSS) Total Dissolved Solid (TDS) Total Solid (TS)	APHA 2540 D In-house method CCW-21 based on APHA 2540 E APHA 2540 C APHA 2540 B
Water: <ul style="list-style-type: none"> • Potable and Domestic water • Industrial water • Distilled Demineralized water • Reverse Osmosis water • Ultrapure water • Swimming Pool water • Cooling Tower water • Boiler water • Surface water • Mineral water • Treated water • River water 	Color PtCo Conductivity Turbidity	APHA 2120 C APHA 2510 B APHA 2130 B
Industrial Effluent	Temperature pH Chemical Oxygen Demand Biological Oxygen Demand Total Suspended Solid Oil and Grease	APHA 2550 B APHA 4500 +H APHA 5220 C APHA 5210 B, APHA 4500 OG APHA 2540 D APHA 5520 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
Water Industrial Effluent	Ammonical Nitrogen Color ADMI Sulphide Chromium Hexavalent Chromium Trivalent Phenol Free Chlorine Formaldehyde Fluoride Cyanide	APHA 4500-NH ₃ B&C APHA 2120 F APHA 4500-S ²⁻ F APHA 3500-Cr B In-house method CCW-16 based on APHA 3500-Cr B & 3120 B APHA 5530 D APHA 4500-Cl G In-house method CCW-11 based on Hach Method 8110 APHA 4500-F D In-house method CCW-15 based on APHA 4500- CN C and HACH Method 8027
Water <ul style="list-style-type: none"> • Potable and Domestic water • Industrial water • Distilled Demineralized water • Reverse Osmosis water • Ultrapure water • Swimming Pool water • Cooling Tower water • Boiler water • Surface water • Mineral water • Treated water • River water 	<u>Anions</u> Fluoride, Chloride, Nitrate, Bromide, Nitrite, Sulphate, Phosphate	APHA 4110 B (22 nd edition, 2012)

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water <ul style="list-style-type: none"> • Potable and Domestic water • Industrial water • Distilled Demineralized water • Reverse Osmosis water • Ultrapure water • Swimming Pool water • Cooling Tower water • Boiler water • Surface water • Mineral water • Industrial effluent 	Lead Cadmium Tin Calcium Magnesium Iron Zinc Copper Sodium Potassium Antimony Chromium Aluminium Arsenic Barium Beryllium Boron Cobalt Lithium Manganese Molybdenum Nickel Selenium Silicon Silver	APHA 3120 B
	Mercury	In-house method CCW-19 based on APHA 3112 B by MPAES
	Sample Pre-treatment for metals analysis	APHA 3030 F

APHA 22nd edition, 2012APHA 21st edition, 2005

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SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food and Feed Products: <ul style="list-style-type: none"> • Coffee • Tea • Cereal Food • Frozen Food • Seafood • Sauces • Fruit Drink & Juice • Flour & Confectionery • Dairy Products • Edible oils, fats and their products • Egg and egg products • Fruits and vegetables • Nuts and nut products • Ready to eat savouries • Meat and poultry products • Fish and fish products • Herbs and spices • Animal feed 	Aerobic Plate Counts	AOAC Official Method 990.12 (3M Petrifilm) FDA BAM Chapter 3, 2001
	Yeast and Mould Counts	AOAC Official Method 2014.05 (3M Petrifilm) FDA BAM Chapter 18, 2001
	<i>E. coli</i> / Coliform Count	AOAC Official Method 998.08 & 991.14 (3M Petrifilm) FDA BAM Chapter 4, 2020
	<i>Staphylococcus aureus</i> counts	AOAC Official Method 2003.11, 2003.07, 2003.08 (3M Petrifilm) FDA BAM Chapter 12, 2016
	<i>Salmonella</i> spp.	AOAC Official Method 2014.01 (3M Petrifilm) FDA BAM Chapter 5, 2023
Food and Feed Products <ul style="list-style-type: none"> • Meat and poultry products • Fish/crustaceans and molluscs • Fruit and vegetables • Flour, cereal and mile products • Feed products • Beverages products • Ready to eat products 	Escherichia coli O157:H7	FDA BAM Chapter 4A, 2020
	<i>Vibrio parahaemolyticus</i>	ISO/TS 21872-1:2007 (E)
	<i>Vibrio cholerae</i> detection	ISO/TS 21872-1:2007 (E)
	<i>Bacillus cereus</i> count	BS EN ISO 7932:2004
Food and Feed Products <ul style="list-style-type: none"> • Meat and poultry products • Fish/crustaceans and molluscs • Fruit and vegetables • Flour, cereal and mile products • Feed products • Beverages products • Ready to eat products • Edible Oils, Fats and their products 	<i>Clostridium perfringens</i> count	ISO 7937:2004 (E)
	<i>Shigella</i> Spp.	ISO 21567:2004

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SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Pharmaceutical products/Traditional Medicines: <ul style="list-style-type: none"> Powder Capsule (Hard/Soft) Tablet Oil & Cream Pill 	Total Microbial Aerobic Count	BP 2019, Appendix XVI B
	Total Combines Yeast & Mould Count	BP 2019, Appendix XVI B
	Bile-tolerant Gram Negative Bacteria i) Qualitative ii) Quantitative	BP 2019, Appendix XVI B
	<i>Escherichia coli</i> detection	BP 2019, Appendix XVI B
	<i>Salmonella</i> detection	BP 2019, Appendix XVI B
	<i>Staphylococcus aureus</i> detection	BP 2019, Appendix XVI B
	<i>Pseudomonas aeruginosa</i> detection	BP 2019, Appendix XVI B
	<i>Candida albicans</i> detection	BP 2019, Appendix XVI B
	<i>Burkholderia cepacia</i> detection	In-house method CMP-09 based on BP 2019, appendix XVI B and Himedia Manual
	Bile-tolerant Gram Negative Bacteria – Semi quantitative	BP 2019, Appendix XVI F
Environmental Testing: <ul style="list-style-type: none"> Swab 	<i>Salmonella</i> spp.	In-House method Detection of <i>Salmonella</i> spp. Based on BS EN ISO 6579:2002 using NEOGEN ANSR
	<i>Listeria monocytogenes</i>	In-House method Detection of <i>Listeria monocytogenes</i> based on ISO 11290-1:1996 using NEOGEN ANSR

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SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental testing <ul style="list-style-type: none"> Enumeration of Microbial Count in the Air Using an Open Plate (Sedimentation method) Enumeration/Detection of Microbial count on Surface Area, Equipment and Hand Using Swab Contact Method 	<ul style="list-style-type: none"> Total Plate Count Yeast Mould Aerobic Plate Count Yeast Mould <i>Staphylococcus aureus</i> Coliform <i>E. Coli</i> Salmonella 	Compendium of Methods for the Microbiological Examination of Foods, Chapter 3, 4th Edition (2001)
Water <ul style="list-style-type: none"> Potable and Domestic water Industrial water Distilled Demineralized water Reverse Osmosis water Ultrapure water Swimming Pool water Cooling Tower water Boiler water Surface water Mineral water Industrial effluent Treated water 	Heterotropic plate count (Membrane filtration) Heterotropic plate count (Pour plate) Standard total coliform (Membrane filtration) Standard total coliform (MPN) <i>Escherichia coli</i> (Membrane filtration) <i>Escherichia coli</i> (MPN) Fecal streptococci (MPN) Fecal streptococci (Membrane Filtration) Pseudomonas aeruginosa (MPN) Pseudomonas aeruginosa (Membrane Filtration) Sulphite Reducing Anaerobe Clostridium perrfringens	APHA 9215 D APHA 9215 B APHA 9222 B APHA 9221 B APHA 9222 I APHA 9221 F APHA 9230 B APHA 9230 C APHA 9213 F APHA 9213 E AS/NZS 4276.17.1:2000 AS/NZS 4276.17.1:2000

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SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food	<i>Salmonella</i> <i>Escherichia coli</i> 0157 <i>Listeria monocytogenes</i>	In-house method Detection of <i>Salmonella</i> spp. Based on BS EN ISO 6579:2002 using NEOGEN ANSR In-house method Detection of <i>E. coli</i> 0157:H7 based on BS EN ISO 16654:2001 using NEOGEN ANSR In-house method Detection of <i>Listeria monocytogenes</i> based on ISO 11290-1:1996 using NEOGEN ANSR
Cosmetic Products	<i>Pseudomonas aeruginosa</i> detection	BP 2019, Appendix XVI B
	<i>Candida albicans</i> detection	BP 2019, Appendix XVI B
	<i>Burkholderia cepacia</i> detection	In-house method CMP-09 based on BP 2019, Appendix XVI B and Himedia Manual
Food and Feed Products Coffee Tea Cereal Food Frozen Food Seafood Sauces Fruit Drink & Juice Flour & Confectionery, Dairy Products, Edible oils, fats and their products Egg and egg products Fruits and vegetables Nuts and nut products Ready to eat savouries Meat and poultry products Fish and fish products Herbs and spices Animal feed	Enterobacteria counts	ISO 21528-2:2017

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food and Feed Products	Clostridium botulinum	FDA BAM Chapter 17, 2001
Meat and poultry products Fish/crustaceans and molluscs Fruit and vegetables Flour, cereal and mile products Feed products Beverages products Ready to eat products, Edible Oils, Fats and their product	Listeria monocytogenes and Listeria spp.	ISO 11290-1:2017
	Campylobacter spp. (inclusive campylobacter jejuni and C. coli)	ISO 10272-1:2017

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