

Schedule

Pacific Lab Services
Zagro Global Hub
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5th Floor East Wing
Singapore 738430

Certificate No. : LA-1997-0105-A
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Date : 08 January 2021
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FIELD OF TESTING : Chemical and Biological Testing

MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
A Food and Beverage / Feed	<u>Chemical Analysis</u>	
	1. Crude Protein / Nitrogen	Pacific Lab Method 2.1, Kjeldahl
	2. Crude Fat	Pacific Lab Method 2.3, Gravimetry
	3. Total Fat	Pacific Lab Method 2.4a, Gravimetry
	4. Moisture	Pacific Lab Method 2.7, Gravimetry
	5. Ash	Pacific Lab Method 2.8, Gravimetry
	6. Vitamin A	Pacific Lab Method 3.2, HPLC
	7. Vitamin C	Pacific Lab Method 3.12, HPLC
	8. Vitamin E	Pacific Lab Method 3.14 & 3.14a, HPLC
	9. Cholesterol	Pacific Lab Method 14.2a, HPLC
	10. Heavy Metals & Metals • Fe, Na, Ca, As, Be, Ti, Cd, Co, Cr, Cu, Li, Mg, Mn, Mo, Ni, Pb, Sb, Ag, Tl, V, Zn, Al, K, B, Ba, Si, Se, Sn, Hg	Pacific Lab Method 4.3, ICP-OES/AAS
	11. Fat in Dairy Products	AOAC 905.02 and AOAC 932.06
	12. Fatty Acids, Trans Fat, Saturated & Unsaturated Fat in lipids	AOAC 996.06
	13. Melamine by GCMS and HPLC	Pacific Lab Method 27.9, GCMS/HPLC
14. Total Dietary Fibre	AOAC 985.29	

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A Food and Beverage / Feed	15. Benzoic acid, Sorbic acid and Paraben	Pacific Lab Method 12.17, HPLC
	16. Sugars Reducing and Non Reducing	Pacific Lab method 2.11, Gravimetry
	17. Alcohol in Wines, Beer, Juice and Food	Pacific Lab method 25.9, GC-FID
	18. Sulphur dioxide (Tanner's method)	Pacific Lab method 12.8, Titration
	19. Propionic acid, Formic acid, Acetic acid and Lactic acid	Pacific Lab Method 12.2, HPLC
	20. L-ascorbyl-2- monophosphate	Pacific Lab Method 3.23, HPLC
	21. Vitamin B1, B2, B3 (Niacin, Niacinamide) and B6	Pacific Lab Method 3.15a, HPLC
	22. Vitamin D3	Pacific Lab Method 3.13a, HPLC
	23. Sugars	Pacific Lab Method 2.11c, HPLC
	24. Maduramicin	Pacific Lab Method 5.7, HPLC
	25. Nicarbazin	Pacific Lab Method 5.9, HPLC
	26. Ethoxyquin	Pacific Lab Method 11.4, HPLC
	27. Lasalocid Sodium and Lasalocid	Pacific Lab Method 5.6a, HPLC
	28. Narasin	Pacific Lab Method 5.15, HPLC
	29. Metallic elements and heavy metals	Pacific Lab Method 4.3
30. Vitamin B12	Pacific Lab Method 3.7, HPLC	
B Premix	1. Moisture	Pacific Lab Method 2.7, Gravimetry
	2. Ash	Pacific Lab Method 2.8, Gravimetry
	3. Vitamin A	Pacific Lab Method 3.2, HPLC
	4. Vitamin E	Pacific Lab Method 3.14, HPLC
	5. Niacin & Niacinamide	Pacific Lab Method 3.19a, HPLC

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B Premix	6. Vitamin B2	Pacific Lab method 3.5, HPLC	
	7. Heavy Metals & Metals Fe, Na, Ca, As, Be, Cd, Co, Cr, Cu, Li Mg, Mn, Mo, Ni, Pb, Sb, Ag, Ti, Tl, V, Zn, Al, K, B, Ba, Si, Se, Sn, Hg	Pacific Lab Method 4.3, ICP-OES/AAS	
	8. L-ascorbyl-2- Monophosphate	Pacific Lab Method 3.23, HPLC	
	9. Sugars	Pacific Lab Method 2.11c, HPLC	
	10. Maduramicin	Pacific Lab Method 5.7, HPLC	
	11. Nicarbazin	Pacific Lab Method 5.9, HPLC	
	12. Propionic acid, Formic acid, Acetic acid and Lactic acid	Pacific Lab Method 12.2, HPLC	
	13. Ethoxyquin	Pacific Lab Method 11.4, HPLC	
	14. Lasalocid Sodium and Lasalocid	Pacific Lab Method 5.6a, HPLC	
	15. Narasin	Pacific Lab Method 5.15, HPLC	
	16. Metallic elements and heavy metals	Pacific Lab Method 4.3	
	17. Betaine and BetaineHCl	Pacific Lab Method 9.12, Spectrometry	
	18. Vitamin B12	Pacific Lab Method 3.7, HPLC	
	C Health Supplements / Chinese medicines	1. Heavy Metals & Metals • Fe, Na, Ca, As, Be, Cd, Co, Cr, Cu, Li, Mg, Mn, Mo, Ni, Pb, Sb, Ag, Ti, Tl, V, Zn, Al, K, B, Ba, Si, Se, Sn, Hg	Pacific Lab Method 4.3, ICP-OES/AAS
		2. Sugars Reducing and Non Reducing	Pacific Lab Method 2.11, Gravimetry
		3. Alcohol in Wines, Beer, Juice and Food	Pacific Lab method 25.9, GC-FID
		4. Sulphur dioxide (Tanner's method)	Pacific Lab method 12.8, Titration
		5. Metallic elements and heavy metals	Pacific Lab Method 4.3

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D Pesticide	1. Diazinon	Pacific Lab Method 26.4, GC-FID
E Premix, Food and Feed (Microbiology)	<u>Microbiology Analysis</u> 1. Aerobic Plate Count 2. Rapid Aerobic Plate Count 3. Coliform Plate Count 4. E.coli and Coliform Plate Count 5. Rapid Coliform Count 6. Enterobacteriaceae Plate Count 7. Lactic Acid Bacteria Plate Count 8. Yeast and Mould Plate Count 9. Rapid Yeast and Mould Plate Count 10. Staphylococcus and Staphylococcus aureus Plate Count 11. Salmonella Detection	3M, Petrifilm

Approved Signatories

Dr Ong Pei Thing	– For All Accredited Chemistry Tests
Ms Loh Chin Yen	– For All Accredited Chemistry Tests
Ms Foo Jia Ning	– For All Accredited Chemistry Tests
Mr Raja Vadivel	– For All Accredited Microbiology Tests
Ms. See Chai Ting	– For All Accredited Microbiology Tests

Note:

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment 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. 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.