



CERTIFICATE OF ANALYSIS

Work Order	: MF1817685	Page	: 1 of 4
Amendment	:	Date Samples Received	: 05-Nov-2018 12:30
Client	: BINABADAN ENTERPRISE SDN BHD	Date Analysis Commenced	: 07-Nov-2018
Contact	: MR DAVE	Issue Date	: 26-Nov-2018 14:54
Address	: PG-15A JAYA 33 GROUND FLOOR SUITE 130 NO. 3 , JALAN SEMANGAT SECTION 13 PETALING JAYA SELANGOR 46100	No. of samples received	: 2
E-mail	: service@binabadan.com	No. of samples analysed	: 2
Telephone	: ----		
Facsimile	: ----		
Project	: ----		

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Signatories



This laboratory is accredited under STANDARDS MALAYSIA. The tests reported herein have been performed in accordance with laboratory's Terms of Accreditation. This document has been electronically signed by authorized signatories indicated below. Electronic signing has been carried out in compliance with procedure specified in 21 CFR Part 11.

Signatories	Position
ChngAi Ying	Lab Manager - Food (IKM No: L/2082/7060/15; MJMM No: 0120)
norasikin zowaher	Chemist (IKM No. L/2510/7484/16)
Prassanna Devi	Lab Supervisor - Food (MJMM No: 0202)

*Please direct all technical queries to the laboratory (Reports.MF@alsglobal.com)

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General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

The analytical procedures used by the Food & Pharmaceutical Division have been developed from established internationally recognized procedures such as those published by the FDA BAM, AOAC, ISO, GB, USP, BP and BS EN. In house developed procedures are employed in the absence of documented standards or by client request.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to insufficient sample (reduced weight employed) or matrix interference.

Key: LOR = Limit of reporting CFU = Colony Forming Unit MPN = Most Probable Number PN = Probable Number
ø = ALS is not accredited for these tests

Work Order Specific Comments

- ALS TECHNICHEM prepares this Test Report based on the tests requested and on the specific sample(s) submitted for analysis. The significance of this Report is subject to the adequacy and representative character of the sample(s) and to the comprehensiveness of the tests requested or made. ALS TECHNICHEM assumes no responsibility for variations in quality or other characteristic of the product produced or supplied under conditions over which ALS TECHNICHEM has no control.
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- Results apply to the sample(s) as submitted by the Client in sub-sample container/bag.
- Result < LOR = Not Detected (ND)
- This analysis is performed in ALS Shah Alam, Malaysia.**

ALS Technichem (M) Sdn Bhd

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- Minerals analysis Ca, Fe, K, Mg, Na, P, S in food sample (OF17-41) : In House Method QWI-OF/17-41, Based on AOAC 984.27 and APHA 3120B.
- QWI 17-02 is in-house analysis method based on Method of Analysis for Nutrition Labelling, 1993 Chapter 10
- QWI 17-06 is in-house analysis method based on Method of Analysis for Nutrition Labeling, 1993 Chapter 28 & Pearson's, 1991 Pg. 17, 20
- QWI 17-10 is in-house analysis method based on Method of Analysis for Nutrition Labeling, 1993 Chapter 18 & Pearson, 1991 Pg. 24
- Test amino acid is not accredited
- Added sugar value is provided by the client
- Total Inverted Sugar is with reference to Total Sugar (all monosaccharides and disaccharies) contained in food either naturally occurring or added, and reduce Cu in Fehling reagent as per AOAC 923.09



Analytical Results

FOOD

001 WHEY DEPOT, DUTCH CHOCOLATE

BATCH: 214688

Test description	Method	LOR	Unit	Result
Amino Acid				
∅ Aspartic Acid	AOAC 994.12	5	mg/35g	2177
∅ Alanine	AOAC 994.12	5	mg/35g	1029
∅ Arginine	AOAC 994.12	5	mg/35g	1341
∅ Cystine	AOAC 994.12	5	mg/35g	651
∅ Glutamic acid	AOAC 994.12	5	mg/35g	3500
∅ Glycine	AOAC 994.12	5	mg/35g	410
∅ Histidine	AOAC 994.12	5	mg/35g	2933
∅ Hydroxyproline	AOAC 994.12	5	mg/35g	Not Detected
∅ Isoleucine	AOAC 994.12	5	mg/35g	1012
∅ Leucine	AOAC 994.12	5	mg/35g	2454
∅ Methionine	AOAC 994.12	5	mg/35g	508
∅ Phenylalanine	AOAC 994.12	5	mg/35g	665
∅ Proline	AOAC 994.12	5	mg/35g	1596
∅ Serine	AOAC 994.12	5	mg/35g	1117
∅ Threonine	AOAC 994.12	5	mg/35g	1645
∅ Tryptophan	AOAC 994.12	5	mg/35g	431
∅ Tyrosine	AOAC 994.12	5	mg/35g	623
∅ Valine	AOAC 994.12	5	mg/35g	1061
∅ Hydroxylysine	AOAC 994.12	5	mg/35g	Not Detected
∅ Lysine	AOAC 994.12	5	mg/35g	2667
Metals and Minerals				
Calcium	OF17-41	0.05	mg/100 g	672
Iron	OF17-41	0.05	mg/100 g	0.61
Potassium	OF17-41	0.05	mg/100 g	483
Sodium	OF17-41	0.05	mg/100 g	183
Nutritional Panel				
∅ Added Sugar	Added Sugar	0.1	g/100 g	8.2
Calories from fat	OF036	0.1	kcal/100g	54
Carbohydrates - available	OF035	0.1	g/100 g	3.4
Carbohydrates - Total	OF035	0.1	g/100 g	10.0
Energy (kJ/100g)	OF036	0.1	kJ/100 g	1666
Total Dietary Fibre	OF014.AOAC985.29	0.1	g/100 g	6.7
Cholesterol	OF016.JAOAC1990	1	mg/100g	110
Energy (kcal/100g)	OF036	1.7	kcal/100g	396
Moisture Content	MOIS. ANAL.	0.1	g/100 g	5.1
Protein	OF006	0.1	g/100 g	75.6
Vitamin D	OF066.AOAC995.05	0.1	µg/100g	<0.1
Ash Content	OF002	0.1	g/100 g	3.2
Fat	OF010	0.1	g/100 g	6.0
Total Inverted Sugar	OF001.AOAC923.09	0.1	g/100 g	8.2
Mono-unsaturated fat	OF015.AOAC963.22	0.10	g/100 g	1.8
Poly-unsaturated fat	OF015.AOAC963.22	0.10	g/100 g	1.2
Saturated Fat	OF015.AOAC963.22	0.10	g/100 g	3.0
Trans Fat	OF015.AOAC963.22	0.10	g/100 g	<0.10



FOOD

002 WHEY DEPOT, UNFLAVOURED

BATCH: 315619

<i>Test description</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>
Amino Acid				
∅ Aspartic Acid	AOAC 994.12	5	mg/35g	2275
∅ Alanine	AOAC 994.12	5	mg/35g	1061
∅ Arginine	AOAC 994.12	5	mg/35g	1344
∅ Cystine	AOAC 994.12	5	mg/35g	1057
∅ Glutamic acid	AOAC 994.12	5	mg/35g	3640
∅ Glycine	AOAC 994.12	5	mg/35g	406
∅ Histidine	AOAC 994.12	5	mg/35g	3227
∅ Hydroxyproline	AOAC 994.12	5	mg/35g	Not Detected
∅ Isoleucine	AOAC 994.12	5	mg/35g	1075
∅ Leucine	AOAC 994.12	5	mg/35g	2594
∅ Methionine	AOAC 994.12	5	mg/35g	550
∅ Phenylalanine	AOAC 994.12	5	mg/35g	683
∅ Proline	AOAC 994.12	5	mg/35g	1680
∅ Serine	AOAC 994.12	5	mg/35g	1162
∅ Threonine	AOAC 994.12	5	mg/35g	1733
∅ Tryptophan	AOAC 994.12	5	mg/35g	382
∅ Tyrosine	AOAC 994.12	5	mg/35g	630
∅ Valine	AOAC 994.12	5	mg/35g	1113
∅ Hydroxylysine	AOAC 994.12	5	mg/35g	Not Detected
∅ Lysine	AOAC 994.12	5	mg/35g	2874