RAPIDRAW HONEY SCREENING REPORT

Product Name	:	MC 1 and MC 2					
Client	:	**My Iqra PLT**					
Client address	:	Selangor Fruit Valley, Km7 Jalan Batang Berjuntai Rawang Selangor					
Sample(s) received date	:	25.07.2022	Start of analysis	:	25.07.2022	End of analysis	: 25.07.2022
Reference no.	:	RAPIDRAW/2022/S6012-S6013					

SECTION 1: Sample Description

Colour, appearance	:	Brown
Packaging	:	Plastic tube
Storage temperature (received/stored)	:	Less than 25°C
Sample origin	:	Client
Sample weight	:	10g

SECTION 2: Processing Element

Reagent QC	:	Done
Lab temperature	:	19.9°C

SECTION 3: Test Report

1.0 BACKGROUND

RapidRAW™ is a new method developed to rapidly precipitate a biological material, mainly proteins from water-based solution. The method, when applied to raw and pure honey samples, will form a precipitate which then proved to be mixtures of protein and carbohydrate. The same method when applied to sugar concoction somehow fails to form a precipitate. The different reactions somehow, which when performed on fake honey suggest a missing content of biological material, thus making it possible to differentiate these two products.

RapidRAW ™ adalah satu kaedah baru yang dibangunkan untuk mengendapkan bahan biologi, terutamanya protein daripada larutan berasaskan air. Kaedah ini, apabila digunakan untuk sampel madu mentah dan asli, akan membentuk mendakan yang kemudiannya terbukti menjadi campuran protein dan karbohidrat. Kaedah sama apabila digunakan untuk campuran gula bagaimanapun, gagal untuk membentuk mendakan. Tindak balas berbeza (tiada mendakan) yang diperoleh daripada madu tiruan mencadangkan ketiadaan bahan biologi, sekali gus mampu membezakan produk madu asli dan tiruan.
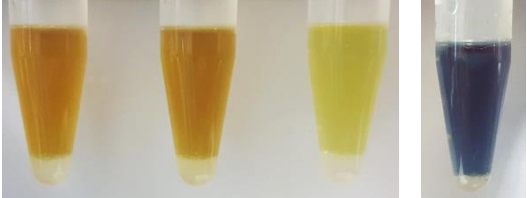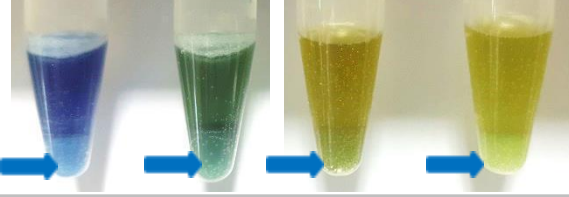
2.0 OBJECTIVE

The objective of this test was to determine honey products with raw honey content.

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3.0 SCREENING TEST SYSTEM

Table 1. Reaction profiles references

Sample	Profile
Not detected (✖) Indicator: Clear base, no sediment Explanation: No trace of biological material which usually found in raw honey	
Detected (✓) Indicator: Solid base, with sediment Explanation: Contain trace of biological material which usually found in raw honey	
Inconclusive (I) Indicator: Clear base with foam Explanation: -Inconclusive	

4.0 MATERIAL

4.1 Test Item

4.1.1 Test Item: (List of samples and RapidRAW code)

4.2 Reagents

4.2.1 RapidRAW Reagent 1 (R1)

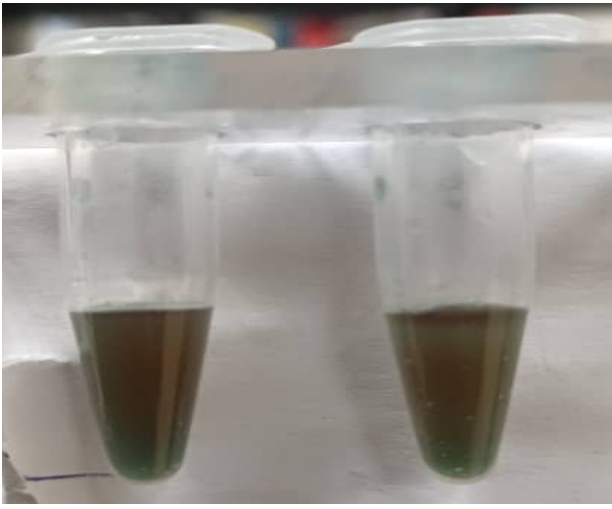4.2.2 RapidRAW Reagent AJ (R2)

5.0 METHOD

5.1 RapidRAW Method of Detection

1. Use three (3) drops of sample in a clean microtube.
2. Add five (5) drops of Reagent 1 (R1) to sample and mix until dissolved.
3. Add seven (7) drops of Reagent AJ (R2) into the mixture and mix for 5 seconds.
4. Let the tube stand in a vertical position for 2 minutes to allow sedimentation.

1. *Masukkan tiga (3) titis sampel ke dalam tiub mikro.*
2. *Tambah lima (5) atau sepuluh (10) titisan Reagent 1 (R1) dan goncang sehingga sampel larut.*
3. *Tambah tujuh (7) titisan Reagent AJ (R2) ke dalam campuran dan goncang selama 5 saat.*
4. *Biarkan tiub dalam kedudukan menegak selama 2 minit untuk membolehkan pengendapan berlaku.*

6.0 RESULT AND DISCUSSION

6.1 RapidRAW Reaction Profiles

No	S6012 MC 1	S6013 MC 2
Result		
Indication	✓	✓
pH value	4.45	4.41

Raw honey was detected in samples S6012 and S6013. (Refer 3.0 Screening Test System).

Madu mentah dikesan dalam sampel S6012 dan S6013. (Sila rujuk 3.0 Sistem Ujian Saringan)

7.0 CONCLUSION

1.   Sample S6012 and S6013 are classified as similar to raw honey profiles.

1.   Sampel S6012 dan S6013 dikelaskan sebagai menyamai profil madu mentah.

8.0 RETENTION OF RECORDS

One report will be forwarded to the client. The other report together with all generated raw data, is maintained at the institution

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APPROVAL SIGNATURES

I / We, the undersigned, declare that the methods, results and data contained in this report faithfully reflect the procedures used and raw data collected throughout the study.

Prepared by:

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