

NO: SAMM 893(Issue 2, 17 March 2023 replacement
of SAMM 893 dated 22 October 2021)

Page: 1 of 5

LABORATORY LOCATION:
(PERMANENT LABORATORY)**ANALYTICAL BIOCHEMISTRY RESEARCH CENTRE
(ABrC)****UNIVERSITI SAINS MALAYSIA
BANGUNAN INKUBATOR INOVASI UNIVERSITI
KAMPUS SAINS@USM, LEBUH BUKIT JAMBUL
11900 BAYAN LEPAS, PULAU PINANG
MALAYSIA****FIELD OF TESTING:****CHEMICAL**

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
Biological Specimens (Body fluid)		
Urine	Analysis of morphine and codeine	In-house Method, LTM 01 using GC-MS
	Analysis of 11-nor- Δ^9 -carboxy-tetrahydrocannabinol-9-carboxy acid	In-house Method, LTM 02 using GC-MS
	Analysis of amphetamine, methamphetamine, methadone, phencyclidine, propoxyphene, ketamine, MDMA, MDA and MDEA	In-house Method, LTM 03 using LC-MS/MS
	Analysis of benzoylecgonine	In-house method, LTM 05 using GC-MS
	Analysis of barbiturates (i.e. amobarbital, butalbital, phenobarbital, pentobarbital, and secobarbital)	In-house method, LTM 06 using GC-MS

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Biological Specimens (Body fluid) (continued) Urine	 Analysis of benzodiazepines (i.e. alprazolam, desakylflurazepam, flurazepam, α -hydroxyalprazolam, 2- hydroxyethylflurazepam, α - hydroxytriazolam, lorazepam, midazolam, nimetazepam, 7- aminoclonazepam, nordiazepam, oxazepam, 7- aminonitrazepam, temazepam and triazolam) Analysis of amphetamine and methamphetamine enantiomers	 In-house method, LTM 04 using LC- MS/MS In-house method, LTM 07 using GC- MS
Blood	Analysis of ethanol	In-house method, LTM 08 using HS- GC-FID

Signatories:

- | | |
|------------------------------|-------------------------|
| 1. Gan Chee Yuen | IKM No.: M/4510/7432/16 |
| 2. Rozaiha binti Rahmat | IKM No.: M/4797/7905/17 |
| 3. Mohd Nazri bin Ismail | IKM No.: M/4702/7693/17 |
| 4. Alyani binti Zainuddin | IKM No.: M/4795/7902/17 |
| 5. Fazilah binti Mohd Akir | IKM No.: M/4799/7907/17 |
| 6. Nur Shahila binti Ibrahim | IKM No.: M/4796/7904/17 |

NO: SAMM 893(Issue 2, 17 March 2023 replacement
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Page: 3 of 5

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food <ul style="list-style-type: none"> • Soy sauce • Seasoning powder • Caramel • Maltodextrin • Glucose 	Analysis of 3-monochloropropane-1,2-diol; and percent dry matter	In-house method, LTM 09 using GC-MS
<ul style="list-style-type: none"> • Fish 	Analysis of polyaromatic hydrocarbons (i.e. acenaphthene, acenaphthylene, anthracene, benz[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[g,h,i]perylene, benzo[a]pyrene, chrysene, dibenz[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3-CD]pyrene, phenanthrene and pyrene) Qualitative analysis of steroids (i.e. bolasterone, boldenone, epiboldenone, epinandrolone, epitestosterone, epitrenbolone, estradiol, estrone, ethynylestradiol, ethynyltestosterone, 4-hydroxystanozolol, 16 β -hydroxystanozolol, medroxyprogesterone, megestrol, melengesterol acetate, methyltestosterone, nandrolone, norethindrone, 19-noretiocholanolone, testosterone, trenbolone and zeranol) and stilbenes (i.e. dienestrol, diethylstilbestrol and hexestrol)	In-house method, LTM 10 using GC-MS In-house method, LTM 11 using LC-MS/MS

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| 2. | Hayati Muhamad Noh | MJMM0378 |
| 3. | Rozaiha binti Rahmat | IKM No.: M/4797/7905/17 |
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NO: SAMM 893(Issue 2, 17 March 2023 replacement
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Page: 5 of 5

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Drugs and Pharmaceuticals Herbal Materials: <ul style="list-style-type: none"> • Powder in capsule • Extract in liquid form • Dried root 	Qualitative Analysis of Aristolochic Acid	In-house method, LTM 17 based on Journal of Food and Drug Analysis 13, 125-131 Analysing Aristolochic Acids in Chinese Herbal Preparation using LC-MS/MS

Signatories:

1. **Gan Chee Yuen**
2. **Hayati Muhamad Noh**
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