

## High Purity Substances

### Preservatives

- HRM-1002A** Benzoic Acid
- HRM-1018A** Sorbic Acid
- HRM-1003A** Methyl Paraben
- HRM-1004A** n-Butyl Paraben
- HRM-1022A** n-Propyl Paraben

### Artificial Sweeteners

- HRM-1009A** Sodium Cyclamate
- HRM-1010A** Saccharin
- HRM-1012A** Acesulfame Potassium
- HRM-1015A** Sucralose
- HRM-1019A** Aspartame

### Amino Acids

- HRM-1006A** L-Valine
- HRM-1007A** L-Proline
- HRM-1008A** L-Leucine
- HRM-1013A** L-Isoleucine
- HRM-1014A** L-Phenylalanine

### Contaminants

- HRM-1017A** Benzo[a]pyrene
- HRM-1026A** 4-Cumylphenol
- HRM-1033A** Histamine Dihydrochloride

### Pharmaceutical Drugs

- HRM-1016A\*** Carbamazepine
- HRM-1027A\*** Sibutramine Hydrochloride Monohydrate

### Impurity in Organic Compound

- HRM-1028A** Total non-volatiles in n-butyl paraben (for Thermogravimetric Analysis)

\* HRM-1016A and HRM-1027A are controlled as poisons under the Poisons Act in Singapore. For purchases made outside of Singapore, an authorisation letter or permit issued by the relevant local authority where the Purchaser is based is required.

## Calibration Solution

**HRM-1029A** N-Nitrosodimethylamine (NDMA) in Methanol



## Water

### Inorganic Elements

**HRM-2015A** Aluminium, Antimony, Arsenic, Barium, Cadmium, Calcium, Chromium, Copper, Lead, Manganese, Molybdenum, Nickel & Selenium in Water

**HRM-2016A** Mercury in Water

## About Our CRMs

Our CRMs are produced in accordance with the requirements of ISO 17034 and ISO Guide 35. A comprehensive Certificate of Analysis (CoA) is provided with each CRM.

## Food & Beverages

### Food Additives

- HRM-1021A** Preservatives in Soy Sauce
- HRM-1025A** Artificial Sweeteners in Soft Drink

### Organic Contaminants

- HRM-1023A** Veterinary Drugs in Salmon Fish Tissue
- HRM-1024A** Benz[a]anthracene and Benzo[a]pyrene in Olive Oil

### Inorganic Elements & Species

- HRM-2003A** Arsenic, Cadmium, Calcium & Lead in Mushroom Powder
- HRM-2008B** Cadmium, Lead, Total Arsenic & Arsenic Species in Apple Juice
- HRM-2013A** Arsenic, Cadmium & Lead in Herbal Material
- HRM-2019A** Inorganic Elements in Infant Formula *(new)*

## Cosmetics

- HRM-2017A** Arsenic, Cadmium & Lead in Cosmetic Cream
- HRM-2012A** Arsenic, Copper, Mercury & Lead in Lipstick
- HRM-2014A** Arsenic, Cadmium, Mercury & Lead in Lipstick
- ARMN M001 / HRM-2018A** Arsenic, Cadmium & Lead in Lipstick

# Quality Control in Clinical Chemistry

Certified Reference Materials  
Chemical Metrology Laboratory, HSA  
Date of Issue: 5 Jan 2024



## About Our Certified Reference Materials (CRMs)

HSA CRMs serve as independent quality controls for clinical laboratories. Our CRMs are produced in accordance with the requirements of ISO 17034 and ISO Guide 35.

A comprehensive Certificate of Analysis (CoA) is provided with each CRM.



### Human Serum

#### **HRM-3005A**

Cortisol

#### **HRM-3006A**

Testosterone

#### **HRM-3007A**

Creatinine • Glucose • Urea • Uric Acid

#### **HRM-3008A**

Total Cholesterol • HDL-Cholesterol • LDL-Cholesterol • Total Glycerides

#### **HRM-2002A**

Sodium • Potassium • Calcium

#### **HRM-2005A**

Calcium • Potassium • Sodium • Magnesium • Iron • Chloride

#### **HRM-2011A**

Sodium • Chloride • Copper • Selenium • Phosphorus

### Human Urine

#### **HRM-3004A**

Albumin • Creatinine

### Human Blood

#### **HRM-3003B**

Glycated haemoglobin (HbA1c)

### Peptide Solutions

#### **HRM-3010A**

Glycated VHLTPE Peptide Solution

#### **HRM-3011A**

VHLTPE Peptide Solution

The CRMs are stable for a long term when stored below  $-60^{\circ}\text{C}$ , except for peptide solutions are to be stored at  $-20^{\circ}\text{C}$ .