

Certified Reference Materials

Health Sciences Authority
Chemical Metrology Laboratory

Date of Issue: 14 Jan 2026

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.

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 33405. A comprehensive Certificate of Analysis (CoA) is provided with each CRM.

For more information on our CRMs and their pricings, please contact us via email at HSA_CML@hsa.gov.sg.

Food & Beverages

Food Additives

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

Organic Contaminants

- HRM-1024A Benz[a]anthracene and Benzo[a]pyrene in Olive Oil
- HRM-1030A Fipronil and Fipronil Sulfone in Chicken Egg Powder

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
- HRM-2020A Inorganic Elements and Arsenic Species in Cricket Powder

Cosmetics

- 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
- HRM-2022A Arsenic, Cadmium, Lead & Mercury in Cosmetic Cream

Quality Control in Clinical Chemistry



Certified Reference Materials
Chemical Metrology Laboratory, HSA
Date of Issue: 9 Oct 2025



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 • Phosphorous

Human Urine

HRM-3004A

Albumin • Creatinine

HRM-3013A

Albumin

Human Blood

HRM-3003B

Glycated haemoglobin (HbA1c)

Peptide Solutions

HRM-3010A

Glycated VHLPE Peptide Solution

HRM-3011A

VHLPE Peptide Solution

The CRMs are stable for a long term when stored below -60°C, except for peptide solutions are to be stored at -20°C.