

# MYCOTOXIN REFERENCE MATERIALS AND PT SCHEMES 2021/2022



Mycotoxin Reference Materials					
Product code	Mycotoxin	Matrix/ solvent	Concentration	Volume	COST (0%VAT)
NMISA_CRM_0012	Aflatoxin B1	Acetonitrile	25 ug/mL	4 mL	R 1 450.00
NMISA_CRM_0014	Aflatoxin B2	Acetonitrile	25 ug/mL	4 mL	R 1 450.00
NMISA_CRM_0016	Aflatoxin G1	Acetonitrile	25 ug/mL	4 mL	R 1 450.00
NMISA_CRM_0018	Aflatoxin G2	Acetonitrile	25 ug/mL	4 mL	R 1 450.00
NMISA_CRM_0005	Zearalenone	Acetonitrile	100 µg/mL	1.2 mL	R 1 730.00
NMISA_CRM_0008	Ochratoxin-A	Acetonitrile (0.1% acid)	50 ug/mL	1.2 mL	R 3 320.00
NMISA_CRM_0010	Deoxynivalenol	Acetonitrile	200 ug/mL	1.2 mL	R 2 000.00
NMISA_QC_AFM1	Aflatoxin M1	Dried down	5 ug (to be reconstituted)		R 2 000.00
NMISA_QC_PAT	Patulin	Acetonitrile	100 µg/mL	2 mL	R 2 000.00
NMISA_QC_FB1	Fumonisin B1	Acetonitrile: water (50:50)	200 ug/mL	2 mL	R 5 000.00
NMISA_QC_FB2	Fumonsin B2	Acetonitrile: water (50:50)	200 ug/mL	1 mL	R 3 000.00
NMISA_CRM_0020	Multi-mycotoxins	Incurred maize	AFB1, AFB2, AFG1, AFG2, Total Aflatoxin, OTA, DON, ZEN, FB1, FB2, FB3	60 g	R5 000.00
NMISA_CRM_0021	Aflatoxins	Peanut slurry	AFB1, AFB2, AFG1, AFG2, Total Aflatoxin	50 g	R1 600.00
NMISA_QC_ORG43	Aflatoxins	Peanut butter	AFB1, AFB2, AFG1, AFG2, Total Aflatoxin	100 g	R 800.00
NMISA_QC_ORG38_2	Blank	Peanut slurry	Total Aflatoxins < 0.05 ug/kg	50 g	R 800.00
NMISA_QC_PT50_AF M1	Aflatoxin M1	Freeze dried milk	AFM1	20 g	R 800.00
Mycotoxin Proficiency Testing Schemes					
Dispatch date	PT Scheme No.	PT Scheme Description		Sample Size	Registration fee
May 2021	NMISA-PT-64	Aflatoxins in peanut slurry		50 g	R3 000.00
Oct 2021	NMISA-PT-65	Aflatoxin M1 in milk		50 mL	R3 000.00
Jan 2022	NMISA-PT-66	Mycotoxins in feed/grain		100 g	R3 000.00



visit [www.nmisa.org](http://www.nmisa.org) for advice or contact us on [referencematerials@nmisa.org](mailto:referencematerials@nmisa.org)



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#### Proficiency testing schemes

Accredited calibration and testing laboratories need to prove proficiency, or competence, in measuring results accurately compared to other laboratories. According to the International Organization for Standardization (ISO/IEC 17025), this should in part be demonstrated through regular participation in proficiency testing schemes

NMISA matrix RMs are used for

#### Quality control and method validation



to optimise method extraction and clean-up procedures, and to ensure that the method continues to perform correctly during routine operation, ensuring confidence in your laboratory's results.

#### Instrument calibration

NMISA high purity CRMs are used for metrologically traceable instrument calibration as required for ISO/IEC 17025 accreditation.

#### Additional information

Samples will be packaged and transported in a manner to minimise deterioration of the sample in transit. Transport costs are calculated depending on the location of the participating laboratory and are therefore not included in the PT cost price. Upon registration, a quotation will be issued including transport costs. Local laboratories may collect the sample directly from the NMISA premises. For international laboratories, please note that any import or quarantine permits remains the responsibility of the participating laboratory and must be submitted to the NMISA prior to the shipment date. Participants are accountable for all customs and import duties. All PT material shall be delivered and collected at the participant's own risk. The NMISA will not take responsibility for samples damaged during transport, although all due care will be exercised during packing to prevent this from occurring.

## NMISA Proficiency Testing Schemes

April 2021 - March 2022

Contact us at [referencematerials@nmisa.org](mailto:referencematerials@nmisa.org) for a quotation



# NMISA Proficiency Testing Schemes April 2021 - March 2022

## Why participate in NMISA PTS?

The National Metrology Institute of South Africa (NMISA) was established under the South African Measurement Units and Measurement Standards Act No 18 of 2006. NMISA is committed to supporting laboratories through the provision of proficiency testing schemes (PTs) that afford participating laboratories the opportunity to regularly demonstrate their continued analytical measurement competence.

NMISA is accredited to ISO/IEC 17025 for Testing and Calibration, ISO 17034 as Reference Material Producer and ISO 17043 as proficiency testing scheme provider. NMISA has been offering PT schemes according to ISO 17043 requirements since 2010. The scope and offering are customised to provide fit-for-purpose relevant PT schemes to our testing laboratories in Forensic Alcohol and Foodstuff Analysis.

We offer a confidential service to participants that allows a laboratory to assess the accuracy of their test results using their routine laboratory methodologies, thereby testing the effectiveness of their methods and quality assurance programs. The provided PT report is generated to assist laboratories in identifying areas of improvement within their current quality system.

Discounts apply when registering for multiple PT rounds PT materials are also available for QC use at R 800 per unit. The QC material reference value is the assigned PT reference value. Discounts apply when purchasing 10 or more units. Full details on shipping and result submission available in each PT scheme protocol description.

Dispatch date	PT Scheme No.	PT Scheme Description	Approx. Sample Size	Registration fee
<b>Mycotoxins</b>				
Oct 2021	NMISA-PT-65	Aflatoxin M1 in milk	50 mL	R 3 000.00
Jan 2022	NMISA-PT-66	Mycotoxins in feed/grain	100 g	R 3 000.00
<b>Pesticides</b>				
June 2021	NMISA-PT-67 Round 1	Pesticides in oranges	50 g + 50 g blank	R 3 800.00
Nov 2021	NMISA-PT-67 Round 2	Pesticides in apples	50 g + 50 g blank	R 3 800.00
Nov 2021	NMISA-PT-67 Round 3	Pesticides in strawberries	50 g + 50 g blank	R 3 800.00
Dec 2021	NMISA-PT-67 Round 4	Pesticides in apricots	50 g + 50 g blank	R 3 800.00
Mar 2022	NMISA-PT-67 Round 5	Pesticides in peaches	50 g + 50 g blank	R 3 800.00
<b>Antibiotic drug residues</b>				
Nov 2021	NMISA-PT-68	Antibiotic drug residues in chicken	50 g + 50 g blank	R 5 000.00
<b>Water analysis</b>				
Nov 2021	NMISA-PT-69	Contaminants in water	2 x 1 L	R 3 000.00
<b>Nutritional Content/ Food labelling</b>				
Sept 2021	NMISA-PT-73	Elements, proximates and amino acids in fortified milk powder	2 x 20 g	R 3 500.00
Jan 2022	NMISA-PT-70	Vitamin A palmitate, nutritional elements in a fortified food matrix	100 g	R 4 000.00
Jan 2022	NMISA-PT-76	Toxic and nutritional elements in maize flour	50 g	R 4 000.00
<b>Forensic Alcohol Analysis</b>				
June 2021	NMISA-PT-71 Round 1	Forensic Blood Alcohol testing: Ethanol	3 levels x 25 mL each	R 6 615.00
Aug 2021	NMISA-PT-71 Round 2	Forensic Blood Alcohol testing: Ethanol	3 levels x 25 mL each	R 6 615.00
Jan 2022	NMISA-PT-71 Round 3	Forensic Blood Alcohol testing: Ethanol	3 levels x 25 mL each	R 6 615.00
Sept 2021	NMISA-PT-72	Forensic Blood preservation: Sodium fluoride	2 levels x 100 mL each	R 4 000.00
June 2021	NMISA-PT-73	Breathalyser calibration using waterbath method	1 level x 4 x 500 mL	R 7 000.00
	NMISA-PT-74	Beverage alcohol content (on request)		R -

Registration deadline 2 weeks before dispatch date  
excludes delivery costs, some materials will require shipping on ice  
Discounts apply when registering multiple participants from the same lab for a single PT

Discounts apply when purchasing 10 or more QC units.  
Full details on shipping and result submission available in each PT scheme protocol description  
Contact us at [pt@nmisa.org](mailto:pt@nmisa.org)

visit [nmisa.org](http://nmisa.org) for advice or contact us on [referencematerials@nmisa.org](mailto:referencematerials@nmisa.org)