

NMISA-PT-ORG18
DETERMINATION OF ETHANOL IN AQUEOUS MEDIUM

14 JANUARY 2015

DESCRIPTION OF PROFICIENCY TESTING SCHEME

1. General

It is not only essential for laboratories and their customers to have ongoing confidence in their competence, but also for stakeholders such as regulators, laboratory accreditation bodies and other organisations. Proficiency testing schemes (PTS) may also be useful for laboratories wishing to internationally benchmark their measurement capabilities.

The scheme is operated by the National Metrology Institute of South Africa (NMISA) in accordance with ISO/IEC 17043 (2010): Conformity assessment . general requirements for proficiency testing.

The primary aim of the scheme is to enable laboratories which routinely determine ethanol in fluids to monitor and improve the quality of their measurements. The scheme also enables laboratories to demonstrate to the appropriate authorities the quality of their measurements.

2. The scheme

The scheme will consist of three rounds. Three different concentration levels (between 0.01 g/ 100 g and 0.5 g/ 100 g) of aqueous ethanol in 25 ml bottles will be distributed every four months.

From the data of previous schemes, the expected performance of the participating laboratories can be calculated. The expected performance levels are a guideline to assist the participants with quality control.

3. Participation fees and additional charges

The cost of participation in all of the three rounds of the PTS is 13 200.00 ZAR (0% VAT). The cost for participation in only one or two rounds is 500.00 ZAR (0% VAT) per round. This fee includes three bottles of three different ethanol concentrations per round. The materials are certified by an accredited titrimetric method. Up to four different participants per laboratory may submit results.

NMISA-PT-ORG18 AQUEOUS ETHANOL

For delivery within the Republic of South Africa (RSA) the fee includes delivery. For participants outside the RSA the actual delivery costs, including customs and import duties, will be carried by the participants.

The fee also includes one full report and one summary report (electronic) per round.

4. Proposed scheme dates:

Round no.	Sample distribution date	Deadline for result submission	Report date
1	17 February 2015	13 March 2015	28 April 2015
2	10 June 2015	15 July 2015	26 August 2015
3	6 October 2015	3 November 2015	15 December 2015

5. Other important information

It is very important that no special treatment be given to these samples and that the usual laboratory procedures must be used to analyse them. Up to four sets of results are to be submitted by each participating laboratory within approximately five weeks of receipt of the samples.

The large sample size will allow different analysts the opportunity to analyse the same solution and compare results.

Following the result deadline, the data will be processed according to ISO 13528:2005 (Statistical methods for use in proficiency testing by interlaboratory comparisons). A report will be issued to each participating laboratory. Reports will be provided in electronically format only as Adobe Acrobat (pdf) files.

The scheme is fully confidential. Each participating laboratory will be issued with a unique laboratory identification number, which will change for every round. Each laboratory is required to identify its analysts by a code known only to the laboratory. The participating laboratory will be required to put in place its own documentation pertaining to its numbering system and handling of the proficiency testing scheme.



Marcellé Archer
Metrologist



Dr Maria Fernandes-Whaley
Section Head: Organic Analysis

REGISTRATION FORM

PLEASE COMPLETE AND RETURN BY FAX (+27 86 509 1652) OR E-MAIL TO
MARCHER@NMISA.ORG

DEADLINE FOR REGISTRATION IS 3 FEBRUARY 2015

Send Test Materials to:	Send PTS Report(s) to:																		
Contact name:	Contact name:																		
Department:																			
Company:	E-mail:																		
Address:	Select registration options: (mark with an X)																		
Town/City:																			
Postal code:	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Round 1 only</td> <td style="width: 5%; text-align: center;"><input type="checkbox"/></td> <td style="width: 35%; text-align: right;">R 5 000.00</td> </tr> <tr> <td>Round 2 only</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: right;">R 5 000.00</td> </tr> <tr> <td>Round 3 only</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: right;">R 5 000.00</td> </tr> <tr> <td>Rounds 1, 2 and 3</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: right;">R 13 200.00</td> </tr> <tr> <td>Delivery outside RSA</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: right;"><i>Price determined by location</i></td> </tr> <tr> <td>Self-collection</td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> </table>	Round 1 only	<input type="checkbox"/>	R 5 000.00	Round 2 only	<input type="checkbox"/>	R 5 000.00	Round 3 only	<input type="checkbox"/>	R 5 000.00	Rounds 1, 2 and 3	<input type="checkbox"/>	R 13 200.00	Delivery outside RSA	<input type="checkbox"/>	<i>Price determined by location</i>	Self-collection	<input type="checkbox"/>	
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Self-collection	<input type="checkbox"/>																		
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I,

hereby confirm that a NMISA Customer Registration Information Form has been completed and submitted to NMISA for official quotation and invoicing. It is understood that registration for the proficiency testing scheme will only be confirmed upon receipt of a purchase order.

Signature

Date