

Your tool for quality assurance performance



Deutsche
Akkreditierungsstelle
D-EP-20961-01-00

Dear Sir or Madam,

We are very pleased to invite you to participate in our 2nd Special Multi Parameter Proficiency Test (Special Multi-PT) which will be conducted in July 2022.

The QSE GmbH is your accredited partner for proficiency tests and had completed the accreditation by the German Accreditation Body (DAkkS) by the end of 2017 under ISO 17043.

Aim and Scheme

The aim of our Special Multi-PT is to provide you with a tool that allows you to monitor your performance during the entire cycle of milk and milk product analyses, from sample preparation to communication of data. In our final report, your performance will be compared with an international population of dairy laboratories allowing you to meet the requirements of ISO 17025.

Organisation and responsibilities

QSE GmbH is responsible for planning and conducting the proficiency testing scheme, including sample preparation and distribution, homogeneity and stability tests, customer services, authorisation of the final report and issue of the certificates of attendance. Statistical calculations will be done by a competent subcontractor.

Parameters, sample material and sample analysis

Our proficiency test covers 4 parameters with up to 4 concentration levels for whey¹, pasteurized, partially homogenized milk/cream¹ and skimmed milk¹. Furthermore 3 parameters with 3 concentration levels are offered for UHT milk and 6 further parameters with 3 or 4 concentration levels are offered for raw goat milk or raw buffalo milk (see table 2, page 4). Participation in all parameters is not obligatory; you have the possibility to sign up only for the parameter you are interested in. This allows you to optimize your participation costs. All methods will be considered, i.e. “reference” and “alternative” methods. Each analysis has to be performed under repeatability conditions.

The results are reported via an online portal (<https://qse.quodata.de>). If you have not yet received any access data for the online portal from participation in one of our other proficiency tests, personal access data will be sent to you in good time. With the access data you will be able to view the reports and certificates of all Special Multi-PT proficiency tests in which you have already participated.

¹ = from cow's milk

Conditions of participation

The results of the analyses must be determined independently and without the help of others by means of your own staff and laboratory equipment in your own laboratory. Please note that the samples are to be treated like samples from routine analysis.

Statistical evaluation, report of results and certificate

Statistical analysis will be performed according to ISO 17043. If there are enough participants (at least 8), we will provide a complete statistical analysis of all results. Furthermore, we offer dedicated statistical elaborations for individual participant groups (at least 8 participants, e.g. dairy plants with different laboratories). A comprehensive report will be provided contemporary. Simple graphs and tables of each parameter-sample-combination will allow you to compare yourself with an international population of dairy laboratories. Your participation will be confirmed by a certificate.

Evaluation criteria

The evaluation is carried out using the calculated z-scores. Please note that with the 2nd Special Multi-PT, z' scores will no longer be shown in the report and certificate.

A laboratory has successfully participated for the respective sample material in this proficiency test if the results of at least 80 % for all tested parameter-sample-combinations and of at least 50 % for each analysed parameter are satisfactory ($|z| \leq 2$). Your results will be treated anonymously and confidentially.

Table 1: Time Plan 2nd Special Multi-PT 2022

Announcement	May 16, 2022
Registration deadline	June 24, 2022
Participation confirmation	July 08, 2022
Sample Dispatch	July 25, 2022
Dispatch information	July 26, 2022
Information on how results should be reported back to QSE	July 26, 2022
Participant has to report if package was not delivered	July 28, 2022
Deadline to send back results	August 29, 2022
Publication of report	October 06, 2022

Table 2: Overview sample material and associated parameters

Sample material / Probenmaterial	Sample / Probe	Fat / Fett	Protein	Dry matter / Trockenmasse	Lactose monohydrate / Laktose-Monohydrat	Freezing point / Gefrierpunkt	SCC / somatische Zellzahl
		g /100 g	g /100 g	g /100 g	g /100 g	m°C	*1000cells/mL
Whey / Molke ¹	1	40 mL	40 mL	40 mL	40 mL		
	2	40 mL	40 mL	40 mL	40 mL		
	3	40 mL	40 mL	40 mL	40 mL		
	4	40 mL	40 mL	40 mL	40 mL		
	Conc. / Konz.	0,14 - 0,46	0,5 - 1,2	3,7 - 7,6	2,6 - 5,2		
Raw buffalo milk / Büffelrohmilch	5	40 mL	40 mL	40 mL	40 mL	40 mL	40 mL
	6	40 mL	40 mL	40 mL	40 mL	40 mL	40 mL
	7	40 mL	40 mL	40 mL	40 mL	40 mL	40 mL
	8	40 mL	40 mL	40 mL	40 mL	40 mL	40 mL
	Conc. / Konz.	5,0 - 8,3	3,9 - 4,9	14,5 - 18,9	4,7 - 5,3	- 530 - - 480	60 - 120
Pasteurized milk / Pasteurisierte Milch ^{1,2}	9	40 mL	40 mL	40 mL		40 mL	
	10	40 mL	40 mL	40 mL		40 mL	
	Conc. / Konz.	1,4 - 7,0	3,0 - 3,4	9,8 - 15,4		- 520 - - 610	
Pasteurized cream / Pasteurisierter Rahm ¹	11	40 mL	40 mL	40 mL		40 mL	
	12	40 mL	40 mL	40 mL		40 mL	
	Conc. / Konz.	9,8 - 21,1	2,7 - 3,2	18,0 - 27,5		- 530 - - 490	
Skimmed milk / Magermilch ¹	13	40 mL	40 mL	40 mL		40 mL	
	14	40 mL	40 mL	40 mL		40 mL	
	15	40 mL	40 mL	40 mL		40 mL	
	16	40 mL	40 mL	40 mL		40 mL	
	Conc. / Konz.	0,04 - 0,9	3,2 - 3,7	3,3 - 9,6		- 530 - - 500	
UHT milk / H-Milch ¹	17	40 mL	40 mL	40 mL			
	18	40 mL	40 mL	40 mL			
	19	40 mL	40 mL	40 mL			
	Conc. / Konz.	0,03 - 3,6	3,4 - 3,8	9,3 - 12,7			
Raw goat milk / Ziegenrohmilch	20	40 mL	40 mL	40 mL	40 mL	40 mL	40 mL
	21	40 mL	40 mL	40 mL	40 mL	40 mL	40 mL
	22	40 mL	40 mL	40 mL	40 mL	40 mL	40 mL
	Conc. / Konz.	3,4 - 4,5	2,9 - 4,3	11,5 - 14,4	4,3 - 5,1	- 620 - - 460	420 - 980

Conc. Concentration range *partially homogenized
Konz. Konzentrationsbereich

A maximum of 6 parameters in up to 4 concentration levels are available for the different sample materials. The proficiency test thus contains a total of 22 samples:

Samples 1 - 4, whey: fat, protein, dry matter and lactose monohydrate

Samples 5 - 8, raw buffalo milk: fat, protein, dry matter, lactose monohydrate, freezing point and SCC

Samples 9 - 10, pasteurized, homogenized milk: fat, protein, dry matter and freezing point

Samples 11 - 12, pasteurized cream: fat, protein, dry matter and freezing point

Samples 13 - 16, skimmed milk: fat, protein, dry matter and freezing point

Samples 17 - 19, UHT milk: fat, protein and dry matter

Samples 20 - 22, raw goat milk: fat, protein, dry matter, lactose monohydrate, freezing point and SCC

Why participate in the QSE SPECIAL MULTI-PT?

- Our proficiency test covers a wide range of sample material; the scope of parameters and the concentration range are matched to routine analysis.
- You will participate in and pay for parameters you are interested in - this allows you to optimise your participation costs.
- Receive a detailed report within a month, containing simple graphs and tables. This will help you to focus on specific steps of your analytical process.
- New sample material and parameters can be added to the scheme if enough laboratories request this.
- Specific statistical elaboration for certain participant groups is possible (at least 8 participants, e.g. some dairy plants or associations/cooperatives that have more than one laboratory; involves additional costs).
- Retest “failed samples” up to two weeks after the report has been received. A useful tool to solve non-compliant steps of your analytical process and demonstrate pragmatically willingness to solve problematic analytical steps.
- If desired, QSE staff will assist you in analysing the data and subsequently take you through a root cause evaluation after the final report has been released.

Participation cost and registration

A basic fee of 60 € will be charged for the proficiency test for participation with less than 5 parameters. The basic fee does not apply for participating with 5 or more parameter-sample-material-combinations. Each parameter is charged with 20 €. Shipping and packaging costs are not included and will be specified in the participation notification.

If the sample volume (40 mL) is sufficient for analysing parameters several times (e.g. one analysis with the reference method and one analysis with the alternative method or analyses are repeated by another technician or equipment), you can report the extra results as well. We will charge you an additional 20 € for each extra submitted analyses / methods. However, if your analytical condition requires two or “x” sets of samples, the cost will be $x \cdot 20$ €.

A certificate which summarises your results is included in the price. If you require extra certificate(s) for single parameters, please note that 20 € will be charged for each.

In the attachment to this invitation, you will find a registration form that has to be completed and sent back **before June 10, 2022**. Please find also a calculation example on the registration form, page 3.

Please note:

- For participants, who reside outside of Germany, local import charges, taxes (etc.) may arise, in addition to courier charges; these have to be covered by participant.
- If you reside outside of Europe, please note that we first have to verify, if it is possible to send the frozen sample material to your country.
- We cannot guarantee that the minimum number of participants will register for each parameter; in addition, if the minimum number of participants is reached, we cannot guarantee that all participants will submit their results.
- If you do not receive the package or if it is delayed or damaged, you have to inform us by **July 28, 2022** at the latest. Otherwise, QSE will invoice you for the Special Multi-PT.

Please do not hesitate to contact us if you need any further information.

Phone: +49(0)9826/623-44 or +49(0)8442 9599-224 e-mail: multipt@qse-gmbh.de

Kind regards



Dipl.-Ing. (FH) Lisa Bärthel
head of division proficiency testing

Registration form for 2nd Special Multi-PT July 2022

Please complete all pages of the registration form (electronically or print out) and send it back by e-mail or fax, **until June 24, 2022.**

Mail: multipt@qse-gmbh.de Fax: +49(0)9826/623-45

Company:	
Contact person:	
E-mail:	
Phone:	
Delivery address:	
Invoice address (only if different from delivery address):	
VAT number:	

I accept that my company name is published in the participation list in the report:

Yes No

We take part with the following sample materials and parameters:

Whey	Fat	Protein	Dry matter	Lactose monohydrate
Number of sample sets				
Method				
Method				

Raw buffalo milk	Fat	Protein	Dry matter	Lactose monohydrate	Freezing point	SCC
Number of sample sets						
Method						
Method						

Pasteurized milk	Fat	Protein	Dry matter	Freezing point
Number of sample sets				
Method				
Method				

Pasteurized cream	Fat	Protein	Dry matter	Freezing point
Number of sample sets				
Method				
Method				

Skimmed milk	Fett	Protein	Dry matter	Freezing point
Number of sample sets				
Method				
Method				

UHT milk	Fat	Protein	Dry matter
Number of sample sets			
Method			
Method			

Raw goat milk	Fat	Protein	Dry matter	Lactose monohydrate	Freezing point	SCC
Number of sample sets						
Method						
Method						

There is a basic fee of 60 € for participation with less than 5 parameters. The basic fee does not apply for participation with at least 5 parameter-sample-material-combinations. We charge 20 € per registered parameter per product. We will charge you an additional 20 € for each extra submitted analysis /method. Please note that shipping and packaging costs are not included and will be specified in the packaging notification.

Instructions:

The registration form can be filled in electronically by writing in the single fields. Alternatively, you can print out and scan the form. In the column "Number of sample sets", you can sign in for the parameter you would like to participate in, e.g. "1" for one set of samples, "2" for two sets of samples. Please also indicate the method(s) you will use.

Examples:

- If you would like to participate with the parameters Fat, Protein and Lactose Monohydrate for the sample material whey please enter in each case "1" under row of sample sets. You will be invoiced 120 € (60 € basic fee and 20 €*3 for each parameter) and your sample set will contain samples 1 - 4, each with a volume of 40 mL.
- If the volume of 40 mL per sample is not sufficient for your analyses, e.g. because you would like to determine all three parameters with the reference as well as with the alternative method, enter e.g. "2". In this case, you will receive two sets of samples and you will be invoiced 180 €.
- If you would like to participate with the parameters fat, protein and lactose monohydrate for whey and the parameters fat and protein for raw buffalo milk, please enter "1" in the tables "Whey" and "Raw buffalo milk" in the respective columns under "Number of sample sets". You will receive samples 1-4 once and samples 5-8 once, each with a volume of 40 mL, and pay 100 € (no basic fee; 5*20 € for the parameters).

You can request for certain parameters **additional certificates** at the price of 20 € each. Please specify for this purpose in the fields below for which parameters an additional certificate is to be issued:

1. Certificate of parameters:
2. Certificate of parameters:
3. Certificate of parameters:

Hereby we declare our binding registration with the selected parameters in 2nd Special Multi-PT 2022.

If you do not receive a confirmation of your registration within the next 14 days, please contact us immediately.

_____	_____	_____
date	responsible staff	company