

 Central Institute for Supervising and Testing in Agriculture	National Reference Laboratory Department of Proficiency Testing Programmes	SDPK – Z No. 10
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PLAN OF THE PROFICIENCY TESTING SCHEMES MPZ UKZUZ IN THE YEAR 2026 + PRICES
PT SCHEMES IN THE SCOPE OF ACCREDITATION

UKZUZ, NRL, OdMPZ, Hroznova 63/2, Pisarky, 603 00 BRNO, CZECH REPUBLIC

Accredited Provider of Proficiency Testing Schemes No.7005 by CAI (Czech Accreditation Institute) according to EN ISO/IEC 17043:2023

PT scheme denotation	Scope of the PT scheme MPZ UKZUZ		Number of PT rounds/PT items per year	Amount of PT item	Price per year (CZK)	Price per year (CZK) - double amount
P	Analysis of Soils Determination of P_ICP, P_SP, Ca, K, Mg, Al, B, Cu, Fe, Mn, S, Zn according to Mehlich 3, pH exchangeable in 0,01M CaCl ₂ , EC (1:5), Determination of As, Be, Cd, Co, Cr, Cu, Mo, Ni, Pb, V, Zn in Aqua Regia extract and determination of total Hg		2/6	120 g	3 100	4 650
	Determination of ammonium (N/NH ₄ ⁺) and nitrate (N/NO ₃ ⁻) forms of soil nitrogen, (organized only within PT round 1)					
	<u>PT round 1</u> Start PT round 2 nd week 2026 Deadline PT round 8 th week 2026 Results report 12 th week 2026	<u>PT round 2</u> Start PT round 37 th week 2026 Deadline PT round 42 nd week 2026 Results report 46 th week 2026				
L	Analysis of Sludge and Sediments Determination of As, Be, Cd, Co, Cr, Cu, Mo, Ni, Pb, V, Zn, Na, Ca, Mg, K, P, Fe, Mn, Al, Ba in Aqua Regia extract and determination of total Hg and total N, determination of loss on ignition (LOI) Determination of pH (H ₂ O 1:5), EC (1:25)		2/4	100 g	3 100	4 650
	<u>PT round 1</u> Start PT round 2 nd week 2026 Deadline PT round 8 th week 2026 Results report 12 th week 2026	<u>PT round 2</u> Start PT round 37 th week 2026 Deadline PT round 42 nd week 2026 Results report 46 th week 2026				
R	Analysis of Plants Determination of macronutrinets (total content of Ca, Mg, K, P, Na, N, S, determination of NO ₃ ⁻ content), Determination of microelements and contaminants (total content of As, Be, Cd, Co, Cr, Cu, Mo, Ni, Pb, V, Zn, Hg, Fe, Mn, B, Al)		2/6	20 g	3 100	4 650
	<u>PT round 1</u> Start PT round 2 nd week 2026 Deadline PT round 8 th week 2026 Results report 12 th week 2026	<u>PT round 2</u> Start PT round 37 th week 2026 Deadline PT round 42 nd week 2026 Results report 46 th week 2026				

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K	Analysis of Feedstuffs Determination of basic parameters (moisture, ash, crude protein, starch, sugars,crude fibre, fat, total content of Ca, K, P, Mg, Na, Mn, Zn, Fe, Cu, NaCl). Determination of amino acids (Asp, Thr, Ser, Glu, Pro, Gly, Ala, Cys, Val, Ile, Leu, Tyr, Phe, His, Lys, Arg, Met, Try)		2/6	feeding mixture: 120 g premix:50 g	3 100	4 650
	Determination of ADF and NDF (acid and neutrally detergent fibre), determination of S (organized only within PT round 1)					
	Determination of Se, Co, As, Cd, Cr, Hg, Pb, Ni (organized only within PT round 2)					
	<u>PT round 1</u> Start PT round 2nd week 2026 Deadline PT round 8th week 2026 Results report 12th week 2026					
	<u>PT round 2</u> Start PT round 37th week 2026 Deadline PT round 42nd week 2026 Results report 46th week 2026					
MTX	Analysis of Mycotoxins Determination of ochratoxin A, deoxynivalenol, zearalenon, fumonisin B1, fumonisin B2, sum of fumonisin B1+B2, T2-toxin, HT2-toxin, sum of T2+HT2 toxin, beauvericin, enniatin A, A1, enniatin B, B1, nivalenol		1 feedstuff 1 foodstuff/plant	250 g	1 400	
	PT scheme start 10th week 2026 PT scheme deadline 16th week 2026 Results report 22nd week 2026					
RT	Analysis of Oil Plant Seeds Determination of fat and crude protein		1/3	100 g–200 g	1 000	
	PT scheme start 12th week 2026 PT scheme deadline 17th week 2026 Results report 21st week 2026					
DLK	Analysis of Coccidiostats in Feedstuffs Determination of salinomycin, monensin, nicarbasin, robenidin, narasin, lasalocid (choice of substances will be specified in detail later on)		1/4 feeding mixture and 4 premix	feeding mixture: 100 g premix: 50 g	2 800	
	PT scheme start 17th week 2026 PT scheme deadline 22nd week 2026 Results report 26th week 2026					

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HN	Analysis of Fertilizers Determination of total content of risk elements and micronutrients (As, Cd, Cr, Ni, Pb, Cu, Zn, B, Mn, Fe, Mo, Co) Determination of total content of nutrients (N, P, P ₂ O ₅ , K, K ₂ O, Ca, CaO, Mg, MgO, S, SO ₄) Determination of water-soluble elements (B _{H2O} , Mo _{H2O} , Cu _{H2O} , Mn _{H2O} , Zn _{H2O} , Fe _{H2O} , Co _{H2O} , S _{H2O} , Ca _{H2O} , K _{H2O} , Mg _{H2O} , P _{H2O}) Determination of nitrogen forms (N/NH ₄ , N/NO ₃ , N/NH ₂) Determination of P in neutral citrate leachate P _{nca} Determination of chlorides Cl ⁻ Determination of total Hg Determination of moisture content (choice of parameters will be specified in detail later)	1/2	70 g–100 g	3 100	
	PT scheme start 16th week 2026 PT scheme deadline 21st week 2026 Results report 25th week 2026				
DLV	Analysis of Vitamins in Feedstuffs Determination of vitamins A, E and D ₃	1/1 feeding mixture and 1 premix	feeding mixture: 250 g premix: 120 g	1 400	
	PT scheme start 40th week 2026 PT scheme deadline 45th week 2026 Results report 49th week 2026				

The delivery charge will be added to the price. The payment will be made in EUR based on current exchange rate CZK/EUR.

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Information for participants

Registration (the way how to apply) – official time schedule 44th to 46th week 2025, via web portal WebApps.

It is possible to contact the PT provider anytime during the year via mpz@ukzuz.gov.cz.

Criteria for participation – submission of the Application and registration at the PT provider via mpz@ukzuz.gov.cz

Criteria for determination of the assigned value and evaluation of performance – based on ISO 13528; statistical evaluation of the results is presented in each final results report

- The robust statistics according to algorithm A with iteration – estimation of mean value and standard deviation of data is primarily used for the statistical processing and evaluation of participant's results. The principle of the calculation of z-score are values of the robust average x^* and the robust standard deviation s^* calculated, according to algorithm A for the robust analysis.
- z-score calculated according to algorithm A is defined as the difference between the reported value and the value of the robust average x^* divided by the robust standard deviation s^* . Within proficiency testing scheme the absolute value of z-score lower or equal to 1 is considered to be good, the absolute value from 1 to 2 means that the performance is satisfactory, the absolute value between 2 and 3 means that measurements are of questionable quality (in results marked with „!!“) and the absolute value higher than 3 means that measurements are out of satisfactory range (in results marked with „!!“). Z-score is calculated and expressed in colour both in the numerical and the graphical forms (absolute value of z-score 0-2 is green, z-score 2-3 is orange and z-score higher than 3 is red).
- The calculation of z-score is not carried out when less than 4 results from participants are provided and when the robust standard deviation is calculated as zero ($s^* = 0$). The calculation of z-score does not include values signed “less than” (“<”). A sign "less than" (“<”) means that a laboratory delivered a result in the form of < detection limit. For the results reported as “<“, the value of limit of quantification (LOQ) is crucial. These values are evaluated according to further criteria. When the result of the laboratory is lower than the difference between robust average and 3fold of robust standard deviation ($x^* - 3 s^*$), the result is marked with „!!“ as outlier. When the result of the laboratory is higher than the sum of robust average and 3fold of robust standard deviation ($x^* + 3 s^*$), the result is marked with „M!“; the laboratory expressed the high value of LOQ.
- z-score calculated according to Horn procedure (4-7 valid measurements) is defined as the difference between the reported value and the mean value of data set x_{Horn} (estimation of location) divided by the standard deviation s_{Horn} (estimation of confidence interval). The calculated z-score given lower or equal to 1 is considered to be good, the absolute value from 1 to 2 means that the performance is satisfactory, the absolute value between 2 and 3 means that measurements are of questionable quality (in results marked with „!!“) and the absolute value higher than 3 means that measurements are out of satisfactory range (in results marked with „!!“).

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e) The assigned value is calculated for each parameter of MPZ UKZUZ – Analysis of Mycotoxins according to the algorithm for the robust analysis in accordance with ISO 13528 as the robust average x^* of the values received from participants who carried out their analyses by the chromatographic methods. The value of the standard deviation for the calculated assigned value (from the results received by the chromatographic methods) is calculated according to the Horwitz equation, actually equations modified according to Thompson, depending on the analyte concentration expressed as mass fraction.

Confidentiality of participants – unique, randomly generated identification number for each participant, valid for one calendar year. Participants' responsibility for the correctness and honesty of their reported results.

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PT SCHEMES OUT OF THE ACCREDITATION SCOPE

PT scheme denotation	Scope of the PT scheme MPZ UKZUZ	Term (Month/Year)	Number of PT rounds/PT items per year	PT item	Price per year (CZK)
PCR-AP N*	MPZ UKZUZ – PCR – AP Detection of phytoplasma in samples of plant material by PCR (<i>Ca.P.mali</i>)	09-11/2026	1/5	3 apple tree shoots approximately 15–20 cm in length	1 700
	MPZ UKZUZ – PCR – AP Group Detection and identification of phytoplasmas in DNA samples by PCR (<i>Ca.P.mali</i> , <i>Ca.P.pyri</i> , <i>Ca.P.prunorum</i>)	09-11/2026	1/8	50 µl DNA	1 700
GD N*	MPZ UKZUZ Detection of nematodes <i>Globodera</i> in soil samples	08-10/2026	1/10	200 g of soil	1100
GI N*	MPZ UKZUZ Identification of nematodes <i>Globodera</i> (full cysts)	08-10/2026	1/10	cysts	1000

*** labeled PT schemes are not included in the scope of accreditation by CAI (Czech Accreditation Institute) according to EN ISO/IEC 17043:2023**

N* In case of interest in participation in these specific qualitative proficiency testing programmes, please contact the PT provider via mpz@ukzuz.gov.cz for further information.

The delivery charge will be added to the price. The payment will be made in EUR based on current exchange rate CZK/EUR.

Prepared: 27th May 2026, Mgr. Eva Čižmarová, Quality Manager of PT department NRL UKZUZ, *signed electronically*

Reviewed and approved: 1st June 2026, Mgr. Martin Váňa, Head of PT department NRL UKZUZ, *signed electronically*