



TRILOGY

*Analytical Solutions Solving
Analytical Challenges*

Catalogue

Trilogy - Proficiency testing 2021





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About Trilogy

Food and feed analytical laboratories need to assure quality of their analytical methods by using appropriate reference materials and participating in proficiency testing schemes. Now you can choose Trilogy Europe B.V. as your reference materials and proficiency testing provider! Trilogy Europe B.V. has been established in 2019 in the Netherlands and is a subsidiary of well-recognized US company Trilogy Analytical Laboratory with also branches in Argentina and India.

Trilogy Europe B.V. organise proficiency tests and provide reference materials focused on analytical, physical, microbiological and microscopic quality assurance for laboratories and companies to monitor, guarantee and improve their quality. We support laboratories, industry associations, government and multinationals in optimising their quality assurance system. Trilogy Europe B.V. is also a part of the R-Biopharm Group.

Why Trilogy?

The proficiency tests offered by Trilogy Europe B.V. are conducted in accordance with the ISO / IEC 17043 standard. Quality, relevance and continuity of our proficiency schemes are guaranteed by an (inter) national expert group, consisting of experts from European / national reference laboratories, research institutions and (semi) government. Trilogy Europe B.V. is an active member of various NEN committees and the International Scientific Committee of Eurachem.

The importance of proficiency tests

Proficiency tests are essential part of laboratory quality assurance system. Each proficiency test provides you with a score allowing you to assess if any corrective actions are needed. In addition, proficiency tests are used internally for specific validation or to harmonise (new) analytical methods or sampling techniques. They can be used, for example, to determine the precision and accuracy in different matrices and for different analytes. Proficiency tests are mandatory to obtain or maintain your laboratory accreditation and recognition. The results of proficiency tests must be submitted periodically to the Accreditation Council, GMP + or government bodies for assessment.

Common statistical characteristics in a proficiency test model are: Average, SDPA, (relative) Uncertainty, (relative) Reproducibility and Z-score.

Other types of characteristics are also used and the choice of them depends on product groups and the type of proficiency test (qualitative vs quantitative). The Z-score is one of the most important value that is used to compare the results obtained by different laboratories.

Results of proficiency tests can be presented in distribution charts, Youden plots (XY diagrams) and tabular form (overall and individually).



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Proficiency Test scheme 2021

The Trilogy Proficiency Test scheme 2021 comprise 14 proficiency tests with total 20 rounds.

PT Scheme	Parameters
Proximate analysis + NIR	Moisture, protein, fat, ash, ash HCl-insoluble, sugars, starch, NDF, ADF, pepsin protein solubility, pH, lactose + NIR
Minerals, trace elements and heavy metals	Ca, P, Mg, Na, Fe, Cu, Zn, Mn, Cl, Cd, Co, Pb, Se, Hg, As, Cr, Ni, Sn, Mo, I
Fat quality	Fatty acids profile, (un)saturated fatty acids, free fatty acids, moisture, dirt, anisidine value mono-, polymeric triglycerides, Iodine value, unsaponifiable matter, peroxide value
Microscopic examination	Animal proteins (Bone fragments, Fish bone fragments, muscle tissue), label control, product assessment
Mycotoxins	Aflatoxin B1, B2, G1, G2, total Aflatoxins, OTA, DON, ZEA, T-2, HT-2, total T_2/HT-2, Fumonisin B1, B2, total Fumonisines
Veterinary drugs- LL Low level	Monensin, Narasin, Nicarbazine, Robenidone, Salinomycin, Amprolium, Carbadox, Olaquinox, Metronidazole, Dimetridazole, Furazolidon, Chloramphenicol (CAP), Ronidazole
Veterinary drugs- HA High & Additive Level	Monensin, Narasin, Nicarbazine, Robenidone, Salinomycin
Microbiology	TVC, Enterococci, Yeasts and Moulds, salmonella
Mineral oil, MOSH, MOAH in oil/fat	Mineral oil, MOSH, MOAH and subfractions
Mineral oil, MOSH, MOAH in food/package	Mineral oil, MOSH, MOAH and subfractions
Heavy metals in oil/fat	Cd, Hg, Cr, Pb, Ni, Cu, Zn, As, Fe
3-MCPD	3-MCPD+ Derivates
Aflatoxin M1	Aflatoxin M1
Biogenic amines	Tryptamine, Phenethylamine, Putrescine, Cadaverine, Histamine, Tyramine, Spermidine, Spermine



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Proficiency Test Catalogue 2021

Proficiency Test	Matrix	PT Code	PT Round Code	PT round	Dispatch
Proximate analysis +NIR	Laying mash	TPT-PRN2	TE-PT-PRN21-1	1	Week 11
	Wheat				
Proximate analysis +NIR	Pig Feed	TPT-PRN2	TE-PT-PRN21-2	2	Week 36
	Palm kernel expeller				
Minerals, trace elements & heavy metals	Pig Feed	TPT-MIN2	TE-PT-MIN21-1	1	Week 9
	Milk powder				
Minerals, trace elements & heavy metals	Broiler Feed	TPT-MIN2	TE-PT-MIN21-2	2	Week 34
	Premix				
Fat Quality	Maize oil, Coconut oil	TPT-FAT4	TE-TP-FAT21-1	1	Week 10
	Deep frying fat A + B				
Fat Quality	Groundnut oil, Lard	TPT-FAT4	TE-TP-FAT21-2	2	Week 38
	Deep frying fat A + B				
Microscopic examination	Sample A, B	TPT-MIK4	TE-PT-MIK21-1	1	Week 12
	Sample C, D				
Microscopic examination	Sample A, B	TPT-MIK4	TE-PT-MIK21-2	2	Week 37
	Sample C, D				
Mycotoxins	Maize	TPT-MYC2	TE-PT-MYC21-1	1	Week 13
	Soy hulls				
Mycotoxins	Wheat	TPT-MYC2	TE-PT-MYC21-2	2	Week 40
	Palm kernel expeller				
Veterinary drugs LL (low level)	Laying mash	TPT-VDL2	TE-PT-VDL21-1	1	Week 16
	Milk powder				
Veterinary drugs HL (High level)	Premix A + B	TPT-DCH4	TE-PT-DCH21-1	1	Week 43
	Feed A + B				
Microbiology	Feed I+ II	TPT-MIC4	TE-PT-MIC21-1	1	Week 15
	Feed III + IV				
Microbiology	Milk powder I+ II	TPT-MIC4	TE-PT-MIC21-2	2	Week 41
	Milk powder III + IV				
Mineral oil, MOSH, MOAH in oil/fat	Mixed fatty acids	TPT-MIO2	TE-PT-MIO21-1	1	Week 15
	Sunflower oil				
Mineral oil, MOSH, MOAH in food/package	Meal	TPT-MOV2	TE-PT-MOV21-1	1	Week 42
	Package				
Heavy metals in oil/fat	Fish oil	TPT-HMO2	TE-PT-HMO21-1	1	Week 17
	Olive oil				
3-MPCD	Palm oil (refind)	TPT-MPC2	TE-PT-MPC21-1	1	Week 39
	Oil (contaminated)				
Aflatoxin M1	Milk powder A	TPT-MYCS2	TE-PT-MYCS21-1	1	Week 20
	Milk powder B				
Biogenic amines	Feed	TPT-BIO2	TE-PT-BIO21-1	1	Week 36
	Food				



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Subscription

Want to participate in our proficiency tests 2021?

Herewith the electronic registration form, with the corresponding prices, for our proficiency testing scheme 2021: [TRILOGY-Proficiency Test-subscription-2021](#)

Information

More information about our ever-increasing range of reference materials, proficiency tests and services, please go to our website: <https://trilogylab.com>

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