

# **Eurofins Proficiency Tests 2022**



# Proficiency tests for wastewater analyses 2022

Performed under DANAK accreditation no. 534 according to ISO 17043.  
Eurofins Miljø is the only accredited proficiency test provider for wastewater in Scandinavia.

Proficiency test	SPIL-1		SPIL-2	
Date for proficiency test	17 March 2022		19 May 2022	
Sample type	Wastewater, effluent		Synthetic wastewater, effluent	
Concentration range	COD <sub>Cr</sub>	5 – 75 mg/L O <sub>2</sub>	Total nitrogen	2 – 10 mg/L N
	BOD (w. ATU)	2 – 6 mg/L O <sub>2</sub>	Ammonium	0,1 – 2 mg/L N
	NVOC/TOC	2 – 30 mg/L C	Nitrite+nitrate/Nitrate	1 – 5 mg/L N
	Total phosphorus	0,2 – 2 mg/L P	Conductivity	50 – 300 mS/m
	Chloride	50 – 700 mg/L	pH	6 – 9
	Sulphate	20 – 200 mg/L		
	Suspended solids	20 – 100 mg/L		
Objective	<ul style="list-style-type: none"><li>Assessment of interference that may appear by analysis of natural samples.</li><li>Quality of analysis for the above parameters at low concentration level.</li></ul>		<ul style="list-style-type: none"><li>Recovery of a theoretical value in an unknown sample.</li><li>Quality of analysis for the above parameters at low concentration level in samples with no interfering substances.</li></ul>	
Number of samples	2 samples, 2.5 L each, for organic matter 2 samples, 250 mL each, for phosphorus, chloride and sulphate 2 samples, 1000 mL each, for total suspended solids		2 samples, 250 mL each, for ammonium, total N, nitrite+nitrate/nitrate, conductivity 2 samples, 50 mL each, for pH	

Proficiency test	SPIL-3		SPIL-4	
Date for proficiency test	15 September 2022		17 November 2022	
Sample type	Untreated sewage		Wastewater, effluent	
Concentration range	COD <sub>Cr</sub>	100 – 800 mg/L O <sub>2</sub>	Total nitrogen	2 – 10 mg/L N
	BOD (w. ATU)	50 – 500 mg/L O <sub>2</sub>	Ammonium	0,1 – 2 mg/L N
	NVOC/TOC	50 – 800 mg/L C	Nitrite+nitrate/Nitrate	1 – 5 mg/L N
	Total phosphorus	5 – 10 mg/L P	Conductivity	50 – 300 mS/m
	Chloride	50 – 700 mg/L	pH	6 – 9
	Sulphate	20 – 200 mg/L		
	Suspended solids	100 – 500 mg/L		
Objective	<ul style="list-style-type: none"><li>Assessment of interference that may appear by analysis of highly contaminated natural samples.</li><li>Quality of analysis for the above parameters at high concentration level.</li></ul>		<ul style="list-style-type: none"><li>Assesment of interference that may appear by analysis of natural samples.</li><li>Quality of analysis for the above parameters at low concentration level.</li></ul>	
Number of samples	2 samples, min. 0.5 L each, for organic matter 2 samples, 250 mL each, for phosphorus, chloride and sulphate 2 samples, 250 mL each, for total suspended solids		2 samples, 250 mL each, for ammonium, total N, nitrite+nitrate/nitrate, conductivity 2 samples, 50 mL each, for pH	

## This is how it works

### Samples

Samples for the proficiency test are distributed together with an instruction on handling of the samples and reporting the results. The participant analyses the samples in exactly the same way as any normal waste water sample.

### Results

Results and applied methods are entered into the result form. Further information will be forwarded shortly before the date for proficiency test. Each laboratory receives a unique code number, and all data analysis are treated confidential and anonymous.

In the report it will therefore only be possible to identify results from an individual laboratory if the code number is known. Only the laboratory itself can reveal the code number. However, code numbers for Danish accredited laboratories are sent to DANAK, the Danish accreditation scheme.

### Report

Eurofins performs the data analysis and an evaluation of all results.

A report is sent to each participant showing clearly the quality of analysis for the laboratory compared to other laboratories and to the value assigned to the sample and parameter by us.

### Interested to know more?

If you wish to know the procedures and data analyses performed in more detail, please visit our website:  
[www.eurofins.dk/proficiencytest](http://www.eurofins.dk/proficiencytest)

## Registration

You can register online at our website:  
[www.eurofins.dk/proficiencytest/registration](http://www.eurofins.dk/proficiencytest/registration)  
Please note, that we need your registration 4-6 weeks before the first proficiency test that you plan to participate in.

### Reminder

Approximately one month before a proficiency test, Eurofins sends a reminder for all registered participants. The reminder advises the laboratory of the expected arrival date for samples.

### Cancellation of participation

Cancellation is possible on the following conditions:

- Cancellation one month before a proficiency test: 20% of the total fee for the proficiency test will be charged;
- Cancellation later than one month before a proficiency test: The full fee for the proficiency test will be charged.

### If you have questions

If you have questions regarding the proficiencytest, online registration etc., please contact Synøve Enghave ([proficiencytest@eurofins.dk](mailto:proficiencytest@eurofins.dk)).





## Contact information

If you have any questions

Synøve Enghave

[proficiencytest@eurofins.dk](mailto:proficiencytest@eurofins.dk)



Miljø

**Eurofins Miljø A/S**

Smedskovvej 38

DK-8464 Galten

<https://www.eurofins.dk/proficiencytest>

### About us

Eurofins Scientific is a global market leader in food, environment, pharma and product testing. With over 55.000 staff in 800 laboratories across 50 countries, Eurofins offers a portfolio of over 200.000 analytical methods.