

ACCREDITATION CERTIFICATE

No. LA.239-01-1

Lithuanian National Accreditation Bureau hereby certifies that

complies with the requirements of

**Vytautas Magnus University Agriculture
Academy National Environmental and
Agricultural Research Laboratory Chemical
Research and Analysis Department**

LST EN ISO/IEC 17025:2018

legal entity: Vytauto Didžiojo universitetas
legal entity code: 111950396

and is competent to perform:

testing of soil, soil improvers and active substances of plant protection products

The scope of accreditation below is an integral part of this certificate. Location of the conformity assessment body is specified in the scope of accreditation

Initial accreditation date: **2025-12-29**

Certificate issued / valid since: **2025-12-29**

Version of: **2025-12-29**

Expiry date: **2030-12-28**

Director



DALIA BALEŽENTĖ

The certificate may be changed, its validity suspended or withdrawn by the decision of the National Accreditation Bureau. Information on the actual data of accreditation certificates may be verified at nab.lrv.lt





SCOPE OF ACREDITATION (flexible)*

**Vytautas Magnus University Agriculture Academy National Environmental and Agricultural Research Laboratory
Chemical Research and Analysis Department**, accredited in accordance with **LST EN ISO/IEC 17025:2018**

Location of the conformity assessment body

Savanorių pr. 287, Kaunas, 50127

Materials or products to be tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause (if relevant)	Techniques, methods and/or equipment used (where appropriate)
TESTING OF SOIL			
Soil (up to pH 10)	pH value in 1mol/l KCl suspension	LST EN ISO 10390	Potentiometry
Soil	Organic carbon content	ISO 10694	Infrared spectrometry after dry combustion
	Humus content	ISO 10694, cl. 8.3	Calculation method: organic carbon content multiplied by the conversion factor 1,72
	Nitrogen content (sum of nitrate-nitrogen and nitrite-nitrogen)	LVP D-05	Flow injection analysis (FIA) spectrometry
	Ammonia nitrogen content	LVP D-05	
	Mineral nitrogen content	LVP D-05	Calculation method: sum of nitrogen values
	Plant available phosphorus (P ₂ O ₅) content	LVP D-07	Egner-Riehm-Domingo (A-L) method
	Plant available potassium (K ₂ O) content	LVP D-07	Egner-Riehm-Domingo (A-L) method
TESTING OF SOIL IMPROVERS			
Soil improvers	Dry matter content, %	LST EN 13040	Gravimetry
	Organic matter content, %	LST EN 13039	Gravimetry
	Total nitrogen content, %	ISO 11261, LST EN 13654-1, except cl. 8.9	Kjeldahl method, titrimetry

Materials or products to be tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause (if relevant)	Techniques, methods and/or equipment used (where appropriate)
TESTING OF ACTIVE SUBSTANCES IN PLANT PROTECTION PRODUCTS			
alpha-Cypermethrin emulsion concentrate (EC)	Content of alpha-cypermethrin	CIPAC 454/EC/M, cl. 1, cl. 2.1, cl. 3	Gas chromatography
Epoxiconazole suspension concentrate (SC)	Content of epoxiconazole	CIPAC 609/SC/M, cl. 1, cl. 2.1, cl. 3	Gas chromatography
Epoxiconazole suspoemulsion (SE)	Content of epoxiconazole	CIPAC 609/SE/M, cl. 1, cl. 2.1, cl. 3	Gas chromatography
Epoxiconazole emulsion concentrate (EC)	Content of epoxiconazole	CIPAC 609/EC/M, cl. 1, cl. 2.1, cl. 3	Gas chromatography
Propiconazole emulsion concentrate (EC)	Content of propiconazole	CIPAC 408/EC/M, cl. 1, cl. 2.1, cl. 3	Gas chromatography
Tebuconazole oil-in-water emulsion (EW)	Content of tebuconazole	CIPAC 494/EW/M, cl. 1, cl. 2, cl. 3 CIPAC 494/WP/M, cl. 2.1, cl. 3	Gas chromatography
Tebuconazole solution for seed treatment (FS)	Content of tebuconazole	CIPAC 494/FS/M, cl. 1, cl. 2, cl. 3 CIPAC 494/WP/M, cl. 2.1, cl. 3	Gas chromatography
Tebuconazole emulsion concentrate (EC)	Content of tebuconazole	CIPAC 494/EC/M, p cl. 1, cl. 2, cl. 3 CIPAC 494/WP/M, cl. 2.1, cl. 3	Gas chromatography
Glyphosate water solution (SL)	Content of glyphosate	CIPAC 284/SL/M	High performance liquid chromatography
Diflufenican suspension concentrate (SC)	Content of diflufenican	CIPAC 462/SC/M, cl. 1, cl. 2.1, cl. 3	High performance liquid chromatography
Plant protection products	pH value	CIPAC, MT 75.3	Potentiometry

* One degree of flexibility is defined and applicable for the whole scope of accreditation:
1st degree of flexibility – application of the updated documents of test methods already covered by accreditation or superseding them or application of equivalent documents.

Actual scope of accreditation is published on the website:

<https://zua.vdu.lt/verslui-ir-visuomenei/mokslo-paslaugos/nacionaline-aplinkos-ir-zemes-ukio-tyrimu-laboratorija/>

Note. In case of any discrepancies, ambiguities or disputes regarding the subject matter content between the English and Lithuanian versions of the document, the Lithuanian version shall prevail.

The accreditation certificate is signed with a qualified electronic signature as an attachment to the order of the Director of the National Accreditation Bureau, by which it was approved