



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CHEMICAL

Valid To: April 30, 2026

Certificate Number: 7127.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on tobacco:

<u>Test(s)</u>	<u>Test Method(s)</u>	<u>Reference Method(s)</u>
Determination of % Moisture in Tobacco	AOAC 966.02	N/A
Determination of Cigarette Ignition Propensity	TMG-00607	ASTM E2187
Determination of Cigarette Pressure Drop and Air Dilution of Cigarettes	TMG-00608	ISO 6565 ISO 9512
Determination of Tar, Nicotine, CO in Mainstream Cigarette Smoke by GC	TMS-00196	HC T-115 HC T-214 ISO 8454 ISO 10315 ISO 10362-1 ISO 4387
Determination of TSNAs in Tobacco by LC-MS/MS;  4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK), N-nitrosoanabasine (NAB), N-nitrosoanatabine (NAT), N-nitrosornicotine (NNN)	TWT-00333	N/A
Determination of Ammonia, Nitrates, Total Sugars, Reducing Sugars, and Total Alkaloids in Ground Tobacco by Continuous Flow Analyzer	TWT-00410	N/A
Determination of Dithiocarbamates in Tobacco by UV-Vis Spectrometer	TWT-00411	N/A

<b>Test(s)</b>	<b>Test Method(s)</b>	<b>Reference Method(s)</b>
Determination of Acid Herbicides in Tobacco by LC-MS/MS;  2,4-Dichlorophenoxyacetic acid (2,4-D), 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T), Dicamba, Fluazifop-P, Triclopyr	TWT-00412	N/A
Determination of Toxaphene in Tobacco by GC-MS/MS	TWT-00413	N/A
Determination of Fumigants in Tobacco by GC-MS  1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB)	TWT-00414	N/A
Determination of Maleic Hydrazide in Tobacco by HPLC-UV	TWT-00417	N/A
Determination of Selected CPAs in Tobacco by LC-MS/MS <sup>1</sup>	TWT-00418	N/A
Determination of Selected CHCs and Ops Crop Protection Agents (CPAs) in Tobacco by GC-MS/MS using Electron Ionization <sup>2</sup>	TWT-00419	N/A
Determination of Abamectin in Tobacco by HPLC-FLD	TWT-00421	N/A
Determination of Chlorinated Hydrocarbons (CHCs) and Organophosphates in Tobacco by LC-MS/MS <sup>3</sup>	TWT-00423	N/A
Determination of Maleic Hydrazide in Tobacco by LC-MS/MS	TWT-00426	N/A

**<sup>1</sup>Analytes for TWT-00418 Determination of Selected CPAs in Tobacco by LCMS**

<b>Analyte Name</b>	<b>Analyte Name</b>
Abamectin	Linuron
3-hydroxycarbofuran	Manidipropamide
Acetamiprid	Metalaxyl
Acibenzolar-S-methyl	Metconazole
Aldicarb	Methamidophos
Aldicarb Sulfone	Methidathion oxon
Aldicarb Sulfoxide	Methiocarb
Aminocarb	Methiocarb sulfone
Atrazine	Methiocarb sulfoxide
Atrazine desethyl	Methomyl
Atrazine desisopropyl	Methomyl oxime
Azoxystrobin	Methoprene
Benalaxyl	Metobromuron
Bendiocarb	Metolachlor



Bitertanol	Metoxuron
Boscalid	Monolinuron
Buprofezin	Monuron
Carbaryl	Myclobutanil
Carbendazim	Napropamide
Carbofuran	Oxadixyl
Carfentrazone-ethyl	Oxamyl
Chlorantraniliprole	Oxathiapiprolin
Chlordimeform	Pebulate
Chlorfluazuron	Penconazole
Chlorpropham	Pendimethalin
Clethodim	Phoxim
Clomazone	Piperonyl Butoxide
Clothianidin	Pirimicarb
Cyantraniliprole	Propamocarb
Cyazofamid	Propinconazole
Cymoxanil	Propoxur
Cyproconazole	Pymetrozine
Difenoconazole	Pyraclostrobin
Diflubenzuran	Sethoxydim
Dimethomorph	Spinosyn-a
Dinocap	Spinosyn-d
Diphenamid	Spirotetramat
Diuron	Spirotetramat-cis-enol
Emamectin Benzoate	Spirotetramat-eno-glucoside
Epoconazole	Spirotetramat-keto-hydroxy
Ethiofencarb	Spirotetramat-mono-hydroxy
Ethofumesate	Sulfentrazone
Fenamidone	Tebuconazole (Folicur)
Fluazifop-butyl	Teflubenzuron
Flubendiamide	Tetraconazole
Fluopicolide	Thiabendazole
Fluopyram	Thiacloprid
Flupyradifurone	Thiamethoxam
Flusilazole	Thiodicarb
Flutriafol	Thiophanate methyl
Hexaconazole	Triadimefon
Imazalil	Triadimenol
Imidacloprid	Trifloxystrobin
Indoxacarb	Trifloxysulfuron Na salt

Iprodione	Triflumizole
Iprodione metabolite	Triflumuron
Iprovalicarb	Vernolate
Isopropalin	

**<sup>2</sup>Analytes for TWT-00419 Determination of Selected CHC OP CPAs in Tobacco by LC-MS/MS**

Analyte Name	Analyte Name
2,4,6-Tribromoanisole (TBA)	Flumetralin
2,4,6-Tribromophenol (TBP)	Folpet
2,4,6-Trichloroanisole (TCA)	gamma-HCH (Lindane)
2,4,6-Trichlorophenol (TCP)	Heptachlor
Aldrin	Hexachlorobenzene
Benfluralin	Methoxychlor
Bromophos-ethyl	Mirex
Bromophos-methyl	Nitrofen
Bromopropylate	o,p'-DDD
Butralin	o,p'-DDT
Captan	o,p'-DDE
Chinomethionate	p,p'-DDD
Chlorfenapyr	p,p'-DDE
Chlorobenzilate	p,p'-DDT
Chlorothalonil	Parathion
Chlorpyrifos	Parathion-methyl
Chlorpyrifos-methyl	Pentachloroanisole (PCA)
cis-Chlordane	Pentachlorophenol (PCP)
cis-Heptachlor epoxide	Profenofos
Cyfluthrin	Quinalphos
Dacthal	Tefluthrin
Deltamethrin	Terbufos
Dicloran	Terbufos sulfone
Dicofol	Terbufos sulfoxide
Dieldrin	Tralomethrin
Dioxabenzofos	trans-Chlordane
Endosulfan Sulfate	trans-Heptachlor epoxide
Endrin	Trifluralin
Esfenvalerate	$\alpha$ -Endosulfan
Fenchlorphos	$\alpha$ -HCH
Fenitrothion	$\beta$ -Endosulfan
Fenvalerate	$\beta$ -HCH
Fluensulfone	$\delta$ -HCH

**<sup>3</sup>Analytes for TWT-00423 Determination of Chlorinated Hydrocarbons (CHCs) and Organophosphates in Tobacco by LC-MS/MS**

Analyte Name	Analyte Name
Acephate	Fenthion Sulfone
Alachlor	Fenthion Sulfoxide
Azinphos-ethyl	Fenthion-oxon-sulfone
Azinphos-methyl	Flucythrinate
Bifenthrin	Fonofos
Chlorfenvinphos	Formothion
Chlorpyrifos	Iprobenfos
Chlorpyrifos-methyl	Malathion
Cyhalothrins ( $\lambda$ -cyhalothrin, $\gamma$ -cyhalothrin)	Methidathion
Cypermethrins (alpha-cypermethrin, beta-cypermethrin, zeta-cypermethrin)	Mevinphos
Deltamethrin (Tralomethrin)	Monocrotophos
Demeton-S-methyl	Naled
Diazinon	Omethoate
Dichlorvos	Oxydemeton-methyl
Dimefox	Permethrins (cis-permethrin, trans-permethrin)
Dimethoate	Phorate
Dioxydemeton-S-methyl	Phosalone
Disulfoton	Phosphamidon
Disulfoton Sulfone	Primiphos-methyl
Disulfoton Sulfoxide	Profenofos
Ethion	Pyrethrins (Pyrethrin I, Pyrethrin II, Cinerin I, Cinerin II, Jasmolin I, Jasmolin II)
Ethoprophos	Quinalphos
Famoxadone	Tetrachlorvinphos
Fenamiphos	Thionazin (Zinofos)
Fenamiphos Sulfone	Triazophos
Fenamiphos Sulfoxide	Trichlorfon
Fenitrothion-O-analog	Vamidothion
Fensulfothion	Vamidothion Sulfone
Fenthion	Vamidothion Sulfoxide



# Accredited Laboratory

A2LA has accredited

## LABSTAT INTERNATIONAL LLC

Greensboro, NC

for technical competence in the field of

### Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 17<sup>th</sup> day of June 2024.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 7127.01  
Valid to April 30, 2026

*For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.*