

Agricultural Labs

Types of Services Provided	
SEED QUALITY TESTS	<ul style="list-style-type: none"> All labs will do germination tests. Some labs provide purity tests and some additionally test seed for disease. Seed testing labs are accredited by the Canadian Seed Institute, www.csi-ics.com, and the website includes a list of accredited labs across Canada. Seed testing may include (vigour, moisture, seed weights and bioassays to establish seed and plant quality); seed grading, seed import and release services. Seed Regulations, crop kind tables are developed and regulated by Canadian Food Inspection Agency and can be found at Seed Processors or through Canada Gazette.
SOIL NUTRIENT ANALYSIS	<ul style="list-style-type: none"> Labs that do nutrient analysis of soil and plant tissue can be accredited by the North American Proficiency Testing Program (NAPT). Click here for the full list of accredited labs across North America.
NUTRIENT ANALYSIS	<ul style="list-style-type: none"> Before taking a sample, get the sample collection and submission techniques for the chosen lab. Each may have different requirements. Labs that do nutrient analysis of plant tissue can be accredited by the North American Proficiency Testing Program (NAPT). See link above.
DISEASE DIAGNOSTICS	<ul style="list-style-type: none"> Labs can test for a number of diseases associated with pulse and other crops. Common diseases associated with pulses include: Anthracnose, Alternaria, Aphanomyces Root Rot, Ascochyta, Botrytis, Ergot, Fusarium, Sclerotinia; Other plant pathogens maybe available by request.
HERBICIDE	<ul style="list-style-type: none"> Labs can test for herbicide resistance tests of weeds as well as herbicide carryover in soil.
PESTICIDE RESIDUE	<ul style="list-style-type: none"> Labs can test for pesticide residue in plant tissue.

Agricultural Labs in Alberta		
Name	Contact Info	Services Provided
20/20 Seed Labs (Nisku)	507 11th Ave Nisku AB T9E 7N5 Toll free 1-877-420-2099 Website: www.2020seedlabs.ca http://www.2020seedlabs.ca/testing-services	<ul style="list-style-type: none"> Seed testing including purity, germination, vigour, moisture, seed weights and bioassays to establish seed and plant quality. Seed grading, seed import and release services. Disease diagnosis using DNA based PCR testing. Provides a complete disease diagnostic for pulses including the ascochyta complex where three different fungi occur simultaneously. Diseases

		<p>including seed rots and seedling blights, foot and root rots, pod and stem rots, and leaf blight and pod spot.</p> <ul style="list-style-type: none"> • Crop inspection, research, training, consultancy, and specialty services. • Offers a technology called Spornado, which catches spores providing early detection of disease and better protection. • Aphanomyces soil testing: <ul style="list-style-type: none"> ○ Soil test results are reported as positive or negative. A positive result means the pathogen is present at levels capable of causing the disease. ○ Plant specimen results are analyzed to isolate root rot pathogens that include Fusarium species, Pythium species, and Rhizoctonia solani, in addition to Aphanomyces euteiches.
AGAT Labs	<p>2910 12 St. NE Calgary, AB T2E 7P7 Toll free 1-800-661-7174 Website: www.agatlabs.com/agri-foods/agricultural-analysis/index.cfm</p>	<ul style="list-style-type: none"> • Soil testing, tissue analysis. • Pesticide residue in plant tissue • Herbicide carryover in soil • The address and phone number given is for AGAT's agriculture lab - called their "environmental" division - in Calgary. The company also has ag labs and sample drop off points in Edmonton, Red Deer, Fort McMurray, Lloydminster, and Grande Prairie.
Alberta Plant Health Lab	<p>Crop Diversification Centre North, 17507 Fort Road NW Edmonton Alberta T5Y 6H3 Phone: 780-638-3998 Email: planthealthlab@gov.ab.ca</p>	<ul style="list-style-type: none"> • Disease diagnostic on plant tissue
ALS Environmental Laboratory	<p>9450 – 17 Avenue, NW Edmonton, Alberta T6N 1M9 <u>ALS Website:</u> Phone: 780-413-5227</p>	<ul style="list-style-type: none"> • Drinking water • This company is mostly focused on oil and gas/industrial hygiene.
Down To Earth Labs	<p>3510 6th Ave. North, Lethbridge, AB, T1H 5C3 Phone: 403-328-1133 Website: www.downtoearthlabs.com Email: info@downtoearthlabs.com</p>	<ul style="list-style-type: none"> • Soil nutrient analysis • Plant tissue nutrient analysis
Element	<p>7217 Roper Road NW Edmonton, AB, T6B 3J4 Phone: 780-438-5522 Website: www.element.com</p>	<ul style="list-style-type: none"> • Soil testing and analysis including macro and micronutrients, soil pH, soil salinity, soil organic matter, soil texture, total Exchangeable Cation (TEC) and Percent Base Saturation (% B.S.). • This company had more of a focus on other sectors, however, they did have a page

		focusing on Agricultural Soil Testing and Sampling .
Prairie Herbicide Resistance Research Lab	P.O. Box 3000, 5403 – 1st Avenue South, Lethbridge, AB, T1J 4B1 Phone: 403-359-6967 Email: Charles.Geddes@canada.ca	<ul style="list-style-type: none"> • Herbicide resistance test of weeds. • This Agriculture and Agri-Food Canada lab is focused directly on discovery and confirmation of novel herbicide-resistant weed biotypes. • When a grower or agronomist suspects that they have resistance to an herbicide mode of action which has not been documented in their province, they can send the sample for free testing. • The lab is specifically looking at testing for glyphosate resistance in Kochia and dicamba/fluroxypyr resistance which they believe will be an issue with pulses.
Precision Seed Testing	Box 210, Beaverlodge, AB T0H 0C0 Phone: 780-354-2259 or toll free 1-800-379-4804 Email: precisionseed@xplornet.com Contact person: Sherry Corvalan	<ul style="list-style-type: none"> • Seed Quality – purity and germination. • Germination Accreditation scope: Crop kinds in grade tables 1 to 11 (except orchard grass), 13 to 15. • Purity Accreditation Scope: Crop kinds in grade tables 1 to 6, 8 to 11 (except orchard grass), 13 to 15.
Seed Check Technologies	#22, 5904B — 50th Street, Leduc, AB T9E 6J4 Phone: 780-980-8324 Website: www.seedcheck.net Contact: Morgan Webb Email: morgan@seedcheck.net	<ul style="list-style-type: none"> • Seed Quality – Vigour, germination, purity and seed health. Tests available for all crops. • Seed health including tests for fungus, bacteria, viruses, and nematodes. • Tests specifically for pulses include fusarium head blight, ascochyta, anthracnose, Botrytis and sclerotinia in pulses. Bacterial blights in beans.
SGS BioVision	<p>Sherwood Park Laboratory Unit 310, 280 Portage Close Sherwood Park, AB T8H 2R6 Phone: 780-436-8822 1-800-952-5407 Website: www.biovision.ca Email: Bio.Vision.SherwoodPark@sgs.com Contact: Trevor Nysetvold, Director, Seed and Crop Trevor.nysetvold@sgs.com</p> <p>Grande Prairie Laboratory Unit 106, 10136 128 Ave Grande Prairie, AB, T8V 1E9 Phone: 1-877-532-8889 BioVision.GrandePrairie@sgs.com</p>	<ul style="list-style-type: none"> • Seed analysis services – including germination, disease, vigour, trait and health diagnostics. They are ISTA accredited. • Soil, leaf and water services including pathology, nutrient and water services for irrigation management. • Specific testing for Aphanomyces Root Rot. PCR method for detection and quantification. For soil, results are expressed as ‘Detected’ if all replicates have detectable PCR product greater than 100 oospores/gram of soil, otherwise the result will be reported as ‘Not Detected’. For root tissue, results are expressed as ‘Detected’ or ‘Not Detected’.

Agricultural Labs in Saskatchewan

Name	Contact Info	Services Provided
ALS Laboratories	819 58 Street East, Saskatoon, Saskatchewan S7K 6X5 Phone: 1-306-668-8370 Website: https://www.alsglobal.com/	<ul style="list-style-type: none"> • Soil nutrient analysis • Plant and tissue analysis • Pesticide residue in plant tissue • Soil analysis (1 depth or multiple depths; macro and micronutrients, texture, pH, EC, organic matter, and particle size analysis).
BDS Laboratories	Northern Bank Building #13 Qu'Appelle Street P.O. Box 363 Qu'Appelle, SK S0G 4A0 1-888-BDS-Labs (237-5227) Website: www.bdslabs.com Email: bdslaboratories@sasktel.net	<ul style="list-style-type: none"> • Seed quality - Germination and purity. • Seed diseases including: complex of Botrytis/Ascochyta/Anthracnose/Sclerotinia; Ascochyta, Anthracnose, Alternaria, Blackleg Botrytis, Ergot, Fusarium, and Sclerotinia, Other plant pathogens are also available by request. • Disease diagnostic on plant tissue including pathogenic bacteria or fungi, includes culture and ID. • Note: Testing for Aphanomyces Root Rot – tests root samples from six plants from affected area. Reports positive or negative for A. euteiches.
Crop Protection Laboratory	Saskatchewan Ministry of Agriculture, Crop Protection Laboratory, 1610 Park Street, Regina, SK, S4N 2G1 Phone: 306-787-8130 Website: Crop Protection Laboratory Services E-mail: cpl@gov.sk.ca	<ul style="list-style-type: none"> • Diagnose Pest Problems • Herbicide Resistance Testing • Plant Disease • Weed and Plant Identification • Dutch Elm Disease Testing • Guidelines and Forms for Submitting Samples to the Crop Lab. Sample forms have changed.
Discovery Seeds Lab	450 Melville St., Saskatoon SK S7J 4M2 Phone: 306-249-4484 Website: www.seedtesting.com Email: info@seedtesting.com	<ul style="list-style-type: none"> • Seed quality. Offers a wide range of seed quality testing, including disease testing. • The Pulse Package provides results for germination, vigour, TKW, and a range of relevant economically important diseases in pulses such as Ascochyta, Botrytis, Sclerotinia, and when applicable Anthracnose. • Disease diagnostic on plant tissue (fusarium, sclerotinia, clubroot and blackleg). • Testing for Aphanomyces Root Rot. Soil or root tests detect the presence of A. euteiches. Results are reported as positive or negative. • Discovery Seed Labs has the ability to quantify the number of oospores per gram of soil and have done some quantitative reports for agronomists/farmers to establish a baseline for a field. • Export and import testing.

Lendon Seeds	147 Hodsdman Road, Regina SK S4N 5W5 Phone: 306-585-7333 Website: www.lendonseeds.com Email: lendon.seeds@gmail.com	<ul style="list-style-type: none"> • Seed quality – germination and purity, as well as alternaria and sclerotinia. • Aerologist report now attached to selected test certificates. Covers areas such as low vigour seed, disease testing, chemical damage, etc. • Results available on line at www.lendon.ca .
Parkland Laboratories	143-111 th Avenue West, Melville, SK S0A 2P0 Lab: 306-728-5385 Office: 306-508-0151 After Hours: 306-728-3705 Website: www.parklandlabs.com Email: walter@parklandlabs.com Other offices include Chilliwack, BC. Alberta office no longer open.	<ul style="list-style-type: none"> • Seed Quality – germination and purity tests, including GB grading, on cereal, oilseed and pulse crop kinds listed in Grade Table 1 to VII of the Canada Seeds Act. • Also conducts a number of advisory tests on seed samples, including seed vigour, seed viability, 1000 kernel weight and various diseases including Fusarium head blight infection. • Other tests include sprouting damage, bushel weight, moisture and protein.
Prairie Diagnostic Seed Lab	1105 Railway Ave., Weyburn SK S4H 3H5 Phone: 306-842-7375 Email: pdsl@sasktel.net Website: www.pdsl.net	<ul style="list-style-type: none"> • Seed quality, germination and purity. • Disease testing in both cereal and pulse crops. • 1000 Kernel weight (TKW). • Pounds per bushel weight. • Treated seed purity.
Quantum Genetix	HWY 16 & Floral Rd Site 501 Comp 11, RR 5 Station Main, Saskatoon SK, S7K 3J8 Phone: 1-306-956-2071 www.quantumgenetix.com Email: dna@quantumgenetix.com	<ul style="list-style-type: none"> • Sclerotinia/White Mould – in crop detection of sclerotinia to determine the risk of white mould in soybeans. • Aphanomyces Root Rot - Soil tests with report of detect or negative. For an additional fee, they can detect and quantify the number of oospores per gram of soil. • Botrytis/Grey Mould - in crop detection of botrytis to determine the risk of grey mould infection. • Fusarium Head Blight (Cereals).
Seed Solutions Seed Lab	Box 1420, Swift Current, SK S9H 3G6 Phone: 306-741-9309 or toll free 1- 866-990-7333 Website: www.seedssolutionsseedlabs.com Email: seedssolutions@xplornet.com	<ul style="list-style-type: none"> • Seed Quality – Germination, vigour. • Diseases specifically targeted at diseases impacting pulses. • 1000 Kernel Weight (TKW). To determine the weight of 1000 kernels, which can then be used to determine correct seeding rates based on seed size.
Western Ag Professional Agronomy	804 Central Ave, Saskatoon, SK, S7N 2G6 Phone: Toll free 1-844-435-9272 Office: 306-978-1777 Email: info@westernag.ca Website: www.westernag.ca	<ul style="list-style-type: none"> • Soil nutrient analysis. Uses a Plant Root Simulator (PRS®) probes to measure variations in nutrient supply.

Agricultural Labs in Manitoba

Name	Contact Info	Services Provided
20/20 Seed Labs	3489 Pembina Hwy, Winnipeg, MB R3V 1A4 Local Phone: 1-204-261-3755 Toll Free: 1-866-540-7333 Email: Shari Lafreniere at shari@2020seedlabs.ca Website: www.2020seedlabs.ca	<ul style="list-style-type: none"> • Disease diagnostic on plant tissue. • Seed testing – purity, germination, vigour, moisture, seed weights and bioassays to establish seed and plant quality. • Seed grading, seed import and release services. • Crop inspection. • Research, training, consultancy, and specialty services. • Spornado (spore catcher providing early detection and better protection). • Aphanomyces Root Rot: Soil test results are reported as positive or negative. A positive result means the pathogen is present at levels capable of causing the disease. Plant specimen results are analyzed to isolate root rot pathogens that include Fusarium species, Pythium species, and Rhizoctonia solani, in addition to Aphanomyces euteiches.
Accu-Test Seed Lab	Box 579, 102 - 2nd Ave East, Rivers, MB R0K 1X0 Phone: 204-328-5313 Contact: Dorothy Gerrard Email: dgerrard@redspcr.ca	<ul style="list-style-type: none"> • Seed quality - Germination and purity. • Germination Accreditation Scope: Crop kinds in grade tables 1 to 11 (except orchardgrass), 13 to 20. • Purity Accreditation Scope: Crop kinds in grade tables 1 to 11 (except orchardgrass), 13 to 20.
Ag-Quest	Box 144, Minto, Manitoba R0K 1M0 Phone: 204-776-5554 Website: www.agquest.com	<ul style="list-style-type: none"> • Herbicide resistance testing. • Herbicide resistant weeds – seeds assay (samples must be received by January 31 to guarantee testing before spring). Assay Brochure. • Agronomic research. • Drone based aerial photography of research trials.
Brett Young Seeds Ltd.	P.O. Box 99, St. Norbert Postal Station, Winnipeg, MB R3V 1L5 Contact Person: Harold Murphy Phone: 204-478-2212	<ul style="list-style-type: none"> • Seed – purity and germination. • Accreditation for all crop kinds.
Crop Diagnostic Centre	Manitoba Agriculture, Food and Rural Initiatives 201-545 University Crescent, Winnipeg, MB R3T 5S6 Phone: 204-945-7707 Email: Mardi.Desjardins@gov.mb.ca	<ul style="list-style-type: none"> • Disease diagnostic on plant tissue.
Farmers Edge Laboratories	1357 Dugald Road, Winnipeg, MB R2J 0H3 Phone: 204-233-4099	<ul style="list-style-type: none"> • Soil analysis – a nutrient analysis for agricultural soils, backed by an advanced nutrient recommendation system.

	Email: fe.labs@farmersedge.ca Website: https://www.farmersedge.ca/farmers-edge-laboratory/	<ul style="list-style-type: none"> Plant tissue testing – in-season nutrient deficiency testing for field crops.
Integrity Seed Lab	8040 Park Royale Way, Winnipeg, MB; Mailing Address: Box 17, Group 210, RR#2, Winnipeg, MB R3C 2E6 Phone: 204-774-1882 Email: Glen Green at g.green@integrityseedlab.com Website: www.integrityseedlab.com	<ul style="list-style-type: none"> Seed quality and seed diseases. Serves Western Canada. Germination Accreditation Scope: crop kinds in grade tables 1 to 11 (except orchardgrass), 13 to 20. Purity Accreditation Scope: crop kinds in grade tables 1 to 11 (except orchardgrass), 13 to 20.
SGS BioVision (Winnipeg)	Winnipeg Laboratory 930, 167 Lombard Ave. Winnipeg, MB, R3B 0V3 Phone: 1-204-942-8557 Website: BioVision.Winnipeg@sgs.com	<ul style="list-style-type: none"> Seed analysis services – including germination, disease, vigour, trait and health diagnostics. They are ISTA accredited. Soil, leaf and water services including pathology, nutrient and water services for irrigation management. Testing for Aphanomyces Root Rot. PCR method for detection and quantification. For soil, results are expressed as ‘Detected’ if all replicates have detectable PCR product greater than 100 oospores/gram of soil, otherwise the result will be reported as ‘Not Detected’. For root tissue, results are expressed as ‘Detected’ or ‘Not Detected’.

Agricultural Labs – Other Provinces in Canada

Name	Contact Info	Services Provided
A&L Laboratories	2136 Jetstream Rd London, ON, N5V 3P5 Phone: 519-457-2575 Toll free 1-855-837-8347 Website: www.alcanada.com	<ul style="list-style-type: none"> Seed germination testing. Soil nutrient analysis. For plant tissue analysis instructions, go here: www.alcanada.com/Agricultural-Plant.htm Plant disease diagnostics. Herbicide and pesticide analysis.
Canadian Seed Laboratories	Box 217, 208 David St. K9V 5Z4 Lindsay, ON Canada Phone: 705-328-1648 Contact: Catharine Breadner	<ul style="list-style-type: none"> Seed – purity and germination. Germination Accreditation Scope: All crop kinds. Purity Accreditation Scope: All crop kinds.
Kent Agri Laboratory	8672 John Line, R.R.#2 N0P 2M0 Tupperville, ON Phone: 519-627-3737 Contact: Dianne Gilhuly	<ul style="list-style-type: none"> Seed – purity and germination. Germination Accreditation Scope: All crop kinds. Purity Accreditation Scope: All crop kinds.
Lang Germination	6 Clarinda St, Box 419 N0G 2S0 Teeswater, ON Canada Phone: 519-392-8203	<ul style="list-style-type: none"> Seed – purity and germination. Germination Accreditation Scope: crop kinds in grade tables 1 to 3, 5 and 6, and 18.

	Contact: Shelley Lang	<ul style="list-style-type: none"> • Purity Accreditation Scope: None.
Parkland Laboratories	6715 Beaufort Road Chilliwack, BC V2R 2C5 Office: 604-819-4488 After hours: 604-847-8157 Website: www.parklandlabs.com Email: walter@parklandlabs.com Other office Melville, SK. Alberta office no longer open.	<ul style="list-style-type: none"> • Seed Quality – germination and purity tests, including GB grading, on cereal, oilseed and pulse crop kinds listed in Grade Table 1 to VII of the Canada Seeds Act. • Also conducts a number of advisory tests on seed samples, including seed vigour, seed viability, 1000 kernel weight and various diseases including Fusarium head blight infection. • Other tests include sprouting damage, bushel weight, moisture and protein.
Perth Seed Laboratory	R. R. # 5 N0K 1N0 Mitchell, ON Canada Phone: 519-348-9057 Contact: Bernadine Wolfe	<ul style="list-style-type: none"> • Seed – germination. • Germination Accreditation Scope: crop kinds in grade tables 1 to 6, and 18.
Pioneer Hi-Bred Production Company	7398 Queen's Line, Country Rd #2 West Box 730 Chatham, ON, N7M 5L1 Phone: 519-352-6350 Contact: Annette Charlton	<ul style="list-style-type: none"> • Seed – germination and purity. • For levels of accreditation, visit https://csi-ics.com/accredited-labs).
P.E.I. Soil and Feed Testing Laboratory	23 Innovation Way C1E 0B7 Charlottetown, PE Phone: 902-620-3492 Contact: Patti Shea	<ul style="list-style-type: none"> • Seed – germination and purity. • Germination Accreditation Scope: crop kinds in grade tables 1 to 6 and 18. • Purity Accreditation Scope: none.
La Coop fédérée/ Les semences du Québec	2405 rue de la province J4G 1G3 Longueuil, QC Phone: 450-670-5443	<ul style="list-style-type: none"> • Seed – germination and purity. • Germination Accreditation Scope: crop kinds in grade tables 1 to 20. • Purity Accreditation Scope: crop kinds in grade tables 1 to 20.
Laboratoire P.E.Q.	1470 Place d'Anjou Appt 5 H7G 2N3 Laval, QC Phone: 450-667-6188	<ul style="list-style-type: none"> • Seed – germination and purity. • Germination Accreditation Scope: crop kinds in grade tables 1 to 7 and 16 to 19. • Purity Accreditation Scope: crop kinds in grade tables 1 to 6 and 16 to 19.
Noresco Inc.	2914 boul. Curé - Labelle H7P 5R9 Laval, QC Phone: 514-332-2275 Contact: Christine Ruckstuhl	<ul style="list-style-type: none"> • Seed germination. • Germination Accreditation Scope – crop kinds in grade tables 16 to 20.
Semences Laquerre Inc. (Lab)	1273, boul. de la Montagne G0A 3L0 St-Casimir, QC Canada Contact: Rejean Laquerre	<ul style="list-style-type: none"> • Seed germination. • Species includes wheat, barley, buckwheat, oats, beans, corn, peas, soy and grain mixes.

Agricultural Labs – United States

Name	Contact Info	Services Provided
AGVISE	Two locations: https://www.agvise.com/ 902 13 Street North P.O. Box 187 Benson, MN 56215 P: 320-843-4109 F: 320-843-2074 604 Hwy 15 West P.O. Box 510 Northwood, ND 58267 P: 701-587-6010 F: 701-587-6013	<ul style="list-style-type: none">• AGVISE Laboratories provides a complete line of agricultural testing services and technical support to the U.S. and Canada. They have laboratories in Northwood, North Dakota and Benson, Minnesota.• Soil testing and plant analysis.• Testing includes GLP and Non-GLP analysis.• Click here for their plant tissue analysis sampling guide.