



# Midge-Tolerant Wheat Refuge Testing

Through the Midge-Tolerant Wheat Stewardship Agreement, Canadian seed growers are collaborating to manage the way seed is grown, monitored and distributed. The Saskatchewan Research Council (SRC) administers a unique service for growers, testing midge-tolerant wheat varietal blends for refuge quantification and providing certification for adherence to Canadian Seed Growers' Association standards. For more information on Midge-Tolerant Wheat Stewardship: [midgetolerantwheat.ca](http://midgetolerantwheat.ca)

SRC is a leader in applied research, technology development and high-throughput testing for the agriculture industry. Since 2010, SRC has delivered midge-tolerant wheat refuge testing services directly to producers. SRC experts have developed a wheat midge test method using droplet digital PCR (ddPCR) technology responding to the seed growers' need for more rapid, reliable midge-tolerant wheat refuge test results.

## Accurate

The test method is reliable, providing highly accurate results. For each DNA extraction from a varietal blend, the test is replicated two to four times to ensure accuracy. As the pedigreed seed classification escalates, an increased number of extractions and replicate reactions are performed.

## Flexible

A quick turnaround is achievable with this test method thanks to an efficient process using smaller batches. SRC can provide test results within 10 business days of receiving seed samples.

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Supporting  
the agriculture  
industry with  
quick, reliable and  
cost-effective seed  
testing services.

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## Test markers

We currently have test markers for the following blends. SRC continuously develops and validates tests for new blends.

- ▶ AAC Foray/AAC Penhold
- ▶ AAC Marchwell/AAC Raymore
- ▶ AAC Prevail/CDC Plentiful
- ▶ AAC Tenacious/AAC Crusader
- ▶ AAC Cameron/AC Carberry
- ▶ AAC Jatharia/AC Carberry
- ▶ BW479/SY433
- ▶ CDC Adamant/CDC Bradwell
- ▶ CDC Landmark/AAC Viewfield
- ▶ CDC Carbide/CDC Vivid
- ▶ CDC Titanium/AC Stettler
- ▶ CDC Utmost/Harvest
- ▶ Conquer/5701PR
- ▶ Enchant/AC Crystal
- ▶ Fieldstar/Waskada
- ▶ Glencross/Burnside
- ▶ Goodeve/AC Intrepid
- ▶ CDC Hughes/Cardale
- ▶ Shaw/AC Domain
- ▶ Unity/Waskada
- ▶ Vesper/Waskada
- ▶ Starbuck/Brandon
- ▶ Wheatland/Brandon
- ▶ Alida/Brandon
- ▶ Awesome/Andrew
- ▶ Chiffon/Andrew
- ▶ Paramount/Andrew
- ▶ Indus/Andrew
- ▶ Sparrow/Alderon
- ▶ LeRoy/Redberry
- ▶ AAC Succeed/CDC Alloy
- ▶ AC Weyburn/Precision
- ▶ Chert/ Sovite




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## SRC Environmental Analytical Laboratories DNA Testing Services

Growing societal demand for food traceability, quality assurance and broader food security is creating both new opportunities and increased challenges for Canadian agricultural producers. In response, SRC enables industry to advance innovative research and new technologies that provide the confidence and information necessary to assure customers they are receiving safe, high-quality food and feed products.

DNA testing technologies deliver rapid, cost-effective and consistent solutions that help Canada maintain its strong brand reputation for high-quality agricultural products and contribute to the future competitiveness and prosperity of the crop production sector.