

## **MEMORANDUM**

TO: Prairie Recommending Committee for Pulse and Special Crops

FROM: A. Vandenberg, A. Vargas, J. Horner, B. Barlow, S. Wagenhoffer, Y. Liu, D.

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Saskatoon, Saskatchewan S7N 5A8

DATE: February 10/2025

## SUBJECT: Request for Support for Registration of Faba Bean Line CDC 2030-21

Faba bean line CDC 2030-21 was tested for two years in the Faba Bean Registration Recommendation Trial "A" from 2023-2024. Agronomic performance data summary for that trial is included in the accompanying Table 1. Line CDC 2030-21 is a white-flowered zero tannin, low vicine/convicine (LVC) faba bean. Table 1. (17 site years) indicates the yield of CDC 2030-21 is 91% of Navi and similar to DL Nevado. Seed weight is 27% smaller than Navi and 22% smaller than that of DL Nevado. Flowering time, height, and maturity are similar to that of the checks.

**Strengths:** Low vicine/convicine.

Smaller seed size compared to Navi and DL Nevado. Matures three days earlier than Navi and DL Nevado.

**Neutral:** Similar agronomic characteristics in comparison with Navi and DL Nevado.

Weakness: Higher lodging than either Navi or DL Nevado

Figure 1. Visual comparison of CDC2030-21, Navi and DL Nevado

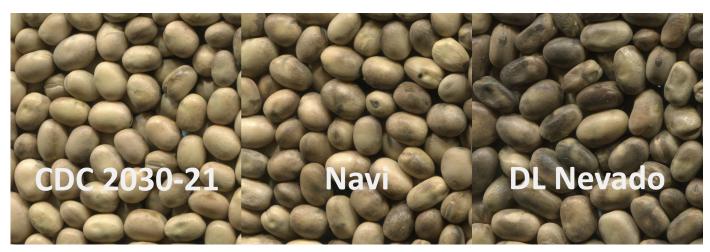




Table 1. Two-year summary of agronomic performance data for CDC 2030-21 Faba Bean in the 2023-24 Cooperative Trial "A" in western Canada

[17]				[12] <b>Days to</b>	[15] [5]		[15]	[6]		[12]	
	Yield				Height	*Lodging	Days to	Seed weight		Protein	
Entry	kg/ha	% Navi	% Nevado	flower	(cm)	(1-9)	mature	g/1000	% Navi	(%)	Kg/Ha
Navi	3983	100	107	53	105	1.8	109	410	100	27.0	1085
DL Nevado	3717	93	100	50	103	1.7	109	390	95	28.0	1045
CDC 2030-21	3642	91	98	51	102	3.2	106	300	73	26.2	972
Grand Mean	3687	93	99	51	104	2.6	107	336	82	26.7	999

**Bold** indicates check

[X] Number of sites.

<sup>\*</sup> Lodging -no ratings taken in 2023 therefore data shown is from 2024 only **Lodging**: is a (1-9) rating where 1 - no lodging and 9 - completely lodged



## Submitted By:

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Work Order 1201461-01

Received 12/13/2024 Completed 1/14/2025

Tested By: SGS Canada Inc. Unit 310, 280 Portage Close Sherwood Park, Alberta T8H 2R6

**P** 1 (780) 436-8822 \*\* CFIA Acc #1172

Sample of: Faba, Ground Sample ID: CDC 2030-21



## REPORT OF ANALYSIS

\*Vicine/Convicine Content Completed: 1/14/2025 Ground Faba Bean **OTH** Method

Vicine 0.04 % Convicine 0.05 %

1. Method(s) used for promoting germination of dormant seed

\*Advisory test - - Method not CFIA M&P prescribed

\*Accredited by CFIA to conduct tests in accordance with the laboratory's scope of accreditation and the Canadian Methods and Procedures for Testing Seed

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