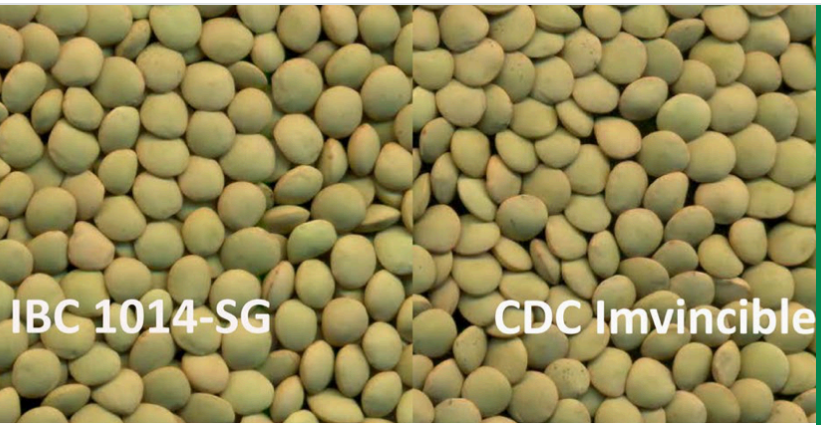

CDC Jimini (CL®) Variety Description

May, 2023

Market Class: Small Green Lentil
Year Released to Select Growers: 2021
Sub-licensed Outside of SK: Not assigned (TBD)
International Distribution Rights: Not assigned
Breeder: Dr. Albert Vandenberg, Crop Development Centre, University of Saskatchewan, Saskatoon, SK
Plant Breeders Rights: Applied

CL (Clearfield®) is a Trademark of BASF Inc.

Description

CDC Jimini (IBC-1014-SG) is a high yielding small green Clearfield® lentil variety. In 2 years of head-to-head testing in the Lentil Regional Variety Trials, CDC Jimini yielded 113% in the brown and dark brown soil zones and 89% in the black and dark grey soil zones as compared to CDC Maxim (Table 1). Long-term yield comparison including co-op and regional variety trial data vs. the long-term averages for CDC Imvincible and CDC Kermit show a similar yield advantage over CDC Imvincible as well as over CDC Kermit. Compared to CDC Imvincible, this represents a 12-14% yield increase in zones 1-2 and 20% in zones 3-4. Seed coat colour, cotyledon colour, flowering time, maturity and plant height are similar to CDC Imvincible. Seed diameter and thickness are both higher than that of CDC Imvincible, making CDC Jimini more suitable for lentil dehulling. Disease resistance of CDC Jimini is similar to CDC Imvincible. Application for PBR'91 protection for CDC Jimini has been submitted.

Strengths

- High yield compared to CDC Imvincible and CDC Kermit
- Imidazolinone tolerance
- Larger seed compared to CDC Imvincible and CDC Kermit
- Taller than CDC Imvincible

Neutral

- Similar disease resistance characteristics compared to CDC Imvincible and CDC Kermit

Weaknesses

- None detected

Table 1: Agronomic Performance for Small Green Lentil CDC Jimini vs. Other Small Green Lentil Varieties (yield data represents 2 years of head-to-head comparative performance)

VARIETY	TYPE	YEAR OF RELEASE	HT*	PBR STATUS	YEARS OF RVT DATA	SEED COAT COLOUR	YIELD % OF CDC MAXIM		DISEASE RESISTANCE***		DAYS TO FLOWER	HEIGHT (CM)	MATURITY RATING	SEED WEIGHT (g/ 1000)	COMMENTS
							AREA 1-2**	AREA 3-4**	ASCOCHYTA BLIGHT	ANTHRACNOSE RACE 1					
CDC imvincible (IBC-112)	SMALL GREEN	2009	CL	–	2	GREEN	101	81	MR	MR	49	33	EARLY	34	
CDC Kermit (3592-13)	SMALL GREEN	2014	–	PBR '91	2	GREEN	109	89	MR	MR	49	36	EARLY-MID	34	High yield.
CDC Jimini (IBC-1014)	SMALL GREEN	2021	CL	PBR '91 APPLIED	2	GREEN	113	89	MR	MR	50	36	EARLY-MID	38	High yield plus CL.

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Source of Yield Data: Lentil Regional Variety Trial data (2019 – 2020);
Source of Agronomic & Disease Ratings: Varieties of Grain Crops (SaskSeed Guide)
*HT = Herbicide Tolerance. CL indicates Clearfield© variety.
**Area 1: Brown soil zone; Area 2: Dark brown; Area 3: Black; Area 4: Dark grey
***Resistance Ratings: R = Resistant; MR = Moderately resistant; I = Intermediate; S = Susceptible

Table 2: Long-term Yield Data for Small Green Lentils (not head-to-head)

VARIETY	TYPE	YEARS TESTED	HT*	PBR STATUS	YIELD % OF CDC MAXIM	
					AREA 1-2**	AREA 3-4**
CDC IMVINCIBLE (IBC-112)	SMALL GREEN	14	CL	–	94	81
CDC KERMIT (3592-13)	SMALL GREEN	11	–	PBR '91	105	95
CDC JIMINI (IBC-1014) NEW	SMALL GREEN	5	CL	PBR '91 APPLIED	108	100

Co-op and Regional trials in Saskatchewan, Source: Varieties of Grain Crops 2021
*HT = Herbicide Tolerance. CL indicates Clearfield© variety.
**Area 1: Brown soil zone; Area 2: Dark brown; Area 3: Black; Area 4: Dark grey

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