Registration of 'Ostimuri 89' Sesame

‘OSTIMURI 89’ SESAME (Sesamum indicum L.) (Reg. no. CV-4, PI 561704) was developed at the Northwest Agricultural Research Center (CIANO-INIFAP-SARH), Ciudad Obregón, Sonora, Mexico. It was released in 1989 as a high-yielding cultivar with tolerance to root rot [incited by Macrophomina phaseolina (Tassi) Goidanich], and adapted for production in northwestern Mexico.

Ostimuri 89 was derived from the cross ‘Iguala 278’/’Eva’. Iguala 278 is an intermediate-maturing landrace and collected in southeastern Mexico. ‘Eva’ is an early-maturing commercial variety released by the University of California Riverside Experiment Station. Selections were made from the segregating population using the pedigree method. Ostimuri 89 originated as an F2 and F3 plant selection, bulked in the F4 generation, and designated as C137-3. It was tested in regional yield trials at several locations in northwestern Mexico.

Ostimuri 89 is a basal-branching, early-maturity cultivar, similar to ‘Teras 77’ when seeded during the first 2 wk of May. It begins flowering ≈45 d after planting and reaches physiological maturity at 95 d. Mature plants of this cultivar average 134 cm in height. Height of the first capsules is 48 cm.

Ostimuri 89 has three white flowers per leaf axil. The capsules are bicarpeled, semidehiscent, oblong-narrow with some pubescence, averaging 24.0 mm long and 6.8 mm wide. The average seed number per capsule is 80, and the lateral capsules are arranged 30° on the stem or branches. The seed is white-stained, and ovate in form, with rounding margin and acute extreme, averaging 3.2 mm long and 2.0 mm wide. Seed weight averages 2.9 g 1000 seed⁻¹, with a test weight of 59 g kg⁻¹.

Ostimuri 89 was tested at Ciudad Obregón over a period of 6 yr and averaged 1169 kg ha⁻¹. The local check cultivar Teras 77 by 20%. Seed has an average of 440 g kg⁻¹ oil, 295 g kg⁻¹ carbohydrates. The average oil, protein, and carbohydrate content of Teras 77 is 412, 301, and 166 g kg⁻¹, respectively. The fatty acid composition of oil from Ostimuri 89 seed averages 377 g kg⁻¹ oleic acid, 457 g kg⁻¹ linoleic acid, 121 g kg⁻¹ palmitic acid, and 46 g kg⁻¹ stearic acid, with an iodine number of 116.5. The oil composition of the check cultivar Yori 77 is 429, 292, and 167 g kg⁻¹ oleic acid, 419 g kg⁻¹ linoleic acid, 110 g kg⁻¹ palmitic acid, and 55 g kg⁻¹ stearic acid, with an iodine number of 116.1.

Seed of Ostimuri 89 was distributed to organizations in Sonora in 1990. Breeder seed is available by CIANO, Apartado Postal 515, 85000, Sonora, Mexico. Additional information about the registration and characteristics of Ostimuri 89 has been published.

References and Notes


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Registration of ‘Turinoca 89’ Sesame

‘TURINOC 89’ SESAME (Sesamum indicum L.) (Reg. no. CV-6, PI 561705) was developed at the Northwest Agricultural Research Center (CIANO-INIFAP-SARH), Ciudad Obregón, Sonora, Mexico. It was released in 1989 as a high-yielding cultivar with tolerance to root rot [incited by Macrophomina phaseolina (Tassi) Goidanich], and adapted for production in northwestern Mexico.

Turinoca 89 was derived from the cross Iguala 101/’Denisse’. Iguala 101 is an early maturing landrace collected in southeastern Mexico. ‘Denisse’ is an intermediate-maturing commercial variety released by the University of California Experiment Station. Selections were made from the segregating population using the pedigree method. Turinoca 89 originated as an F2 and F3 plant selection, bulked in the F4 generation, and designated as C178-25. It was tested in regional yield trials over a period of 6 yr and averaged 1143 kg ha⁻¹. The local check cultivar Yori 77 by 7%. Seed has an average of 416 g kg⁻¹ oil, 282 g kg⁻¹ carbohydrates. The average oil, protein, and carbohydrate content of Yori 77 is 429, 292, and 167 g kg⁻¹, respectively. The fatty acid composition of oil from Turinoca 89 averages 415 g kg⁻¹ oleic acid, 419 g kg⁻¹ linoleic acid, 461 g kg⁻¹ palmitic acid, and 55 g kg⁻¹ stearic acid, with an iodine number of 113.2. The check cultivar, Yori 77, averages 429, 292, and 167 g kg⁻¹ oleic acid, 419 g kg⁻¹ linoleic acid, 461 g kg⁻¹ palmitic acid, and 55 g kg⁻¹ stearic acid, with an iodine number of 113.1.

Seed of Turinoca 89 was distributed to organizations in Sonora in 1990. Breeder seed is available by CIANO, Apartado Postal 515, 85000, Sonora, Mexico. Additional information about the registration and characteristics of Turinoca 89 has been published.