Registration of LN-183, Nondormant *Cuphea lanceolata* Germplasm

LN-183 (Reg. no. GP-4, PI 574384) is a nondormant, open-pollinated population of *Cuphea lanceolata* Ait. LN-183 was developed from LN-148 after three cycles of recurrent mass selection for decreased seed dormancy. LN-183 was developed at Oregon State University and was officially released by the Oregon Agricultural Experiment Station in 1992. LN-148 was derived from LN-183 by eliminating the seed coats once embryo dormancy is broken. LN-183 lacks postharvest seed coat or embryo dormancy. The germination percentages of freshly harvested LN-183 seed usually exceed 80%. Other *C. lanceolata* lines and populations must be stored for a minimum of 4 wk before these germination percentages can be achieved (1,2,3). Many species of *Cuphea* need several months or years of storage before they germinate.

(LN-61-ND)S is a nondormant inbred line of *C. lanceolata*. This line originated from the wild open-pollinated population LN-61. Freshly harvested seed of LN-61 did not germinate, but a random LN-61 S1 line with no postharvest seed dormancy was observed and selected. Sublines of this line were developed and selected for two additional generations and culminated in the development of the nondormant inbred line (LN-61-ND)S. The vigor of (LN-61-ND)S was severely depressed by inbreeding, and this line was unusually hard to propagate sexually. This problem was overcome by crossing it to a partially nondormant inbred line (LN-68)S to restore vigor and create a narrow-based open-pollinated population LN-148. Three cycles of recurrent mass selection for nondormancy were subsequently completed within LN-148. The first 30 germinants among 600 seeds were selected each cycle; 100% of the selected progeny lacked postharvest seed dormancy. The open-pollinated population LN-183 was created by intermating the progeny from the last cycle of selection. LN-183 combines vigorous growth with a lack of postharvest seed dormancy.

LN-183 can be distinguished from undomesticated *C. lanceolata* germplasm by the lack of postharvest seed dormancy; however, the growth habit, seed shattering, and other traits of LN-183 are typical of undomesticated germplasm (4). The seed oil, caprylic, capric, lauric, myristic, palmitic, oleic, and linoleic acid contents of LN-183 harvested at Corvallis, OR, in 1991 were 285, 8, 836, 21, 21, 32, 29, and 46 g kg\(^{-1}\), respectively. These percentages are typical of wildtype *C. lanceolata* germplasm (5). The 1000-seed weight of the 1991 harvest of LN-183 was 2.9 g. This germplasm is indeterminate and exhibits some variations in the upper part of the plant. The plant height (main axis) is 47 cm. It has 2-seeded pods with deep constriction. Its seeds are tan with a 100-seed mass of 44 g, and contain 530 g oil and 240 protein kg\(^{-1}\).

The Genetic Resources Unit, ICRISAT Center, Patancheru, Andhra Pradesh, India. It was introduced into the Republic of Korea in 1981, together with other breeds of *C. lanceolata* germplasm by the lack of postharvest seed dormancy; however, the growth habit, seed shattering, and other traits of LN-183 are typical of undomesticated germplasm (4). The seed oil, caprylic, capric, lauric, myristic, palmitic, oleic, and linoleic acid contents of LN-183 harvested at Corvallis, OR, in 1991 were 285, 8, 836, 21, 21, 32, 29, and 46 g kg\(^{-1}\), respectively. These percentages are typical of wildtype *C. lanceolata* germplasm (5). The 1000-seed weight of the 1991 harvest of LN-183 was 2.9 g. This germplasm is indeterminate and exhibits some variations in the upper part of the plant. The plant height (main axis) is 47 cm. It has 2-seeded pods with deep constriction. Its seeds are tan with a 100-seed mass of 44 g, and contain 530 g oil and 240 protein kg\(^{-1}\).

Sons, New York.

ICGS 35 (ICGV 87127) (Reg. no. GP-67, PI 536487) is a peanut (*Arachis hypogaea* L. subsp. *fastigiatum* (Berk. & M.A. Curtis) Deighton) cultivar derived from *A. hypogaea* L. subsp. *vulgaris* Hartz) was developed at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru, Andhra Pradesh, India. It was introduced into the Republic of Korea in 1981, together with other breeds of *C. lanceolata* germplasm by the lack of postharvest seed dormancy; however, the growth habit, seed shattering, and other traits of LN-183 are typical of undomesticated germplasm (4). The seed oil, caprylic, capric, lauric, myristic, palmitic, oleic, and linoleic acid contents of LN-183 harvested at Corvallis, OR, in 1991 were 285, 8, 836, 21, 21, 32, 29, and 46 g kg\(^{-1}\), respectively. These percentages are typical of wildtype *C. lanceolata* germplasm (5). The 1000-seed weight of the 1991 harvest of LN-183 was 2.9 g. This germplasm is indeterminate and exhibits some variations in the upper part of the plant. The plant height (main axis) is 47 cm. It has 2-seeded pods with deep constriction. Its seeds are tan with a 100-seed mass of 44 g, and contain 530 g oil and 240 protein kg\(^{-1}\).

Registration of ICGS 35 Peanut Germplasm

ICGS 35 (ICGV 87127) (Reg. no. GP-67, PI 536487) is a peanut (*Arachis hypogaea* L. subsp. *fastigiatum* (Berk. & M.A. Curtis) Deighton) cultivar derived from *A. hypogaea* L. subsp. *vulgaris* Hartz) was developed at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru, Andhra Pradesh, India. It was introduced into the Republic of Korea in 1981, together with other breeds of *C. lanceolata* germplasm by the lack of postharvest seed dormancy; however, the growth habit, seed shattering, and other traits of LN-183 are typical of undomesticated germplasm (4). The seed oil, caprylic, capric, lauric, myristic, palmitic, oleic, and linoleic acid contents of LN-183 harvested at Corvallis, OR, in 1991 were 285, 8, 836, 21, 21, 32, 29, and 46 g kg\(^{-1}\), respectively. These percentages are typical of wildtype *C. lanceolata* germplasm (5). The 1000-seed weight of the 1991 harvest of LN-183 was 2.9 g. This germplasm is indeterminate and exhibits some variations in the upper part of the plant. The plant height (main axis) is 47 cm. It has 2-seeded pods with deep constriction. Its seeds are tan with a 100-seed mass of 44 g, and contain 530 g oil and 240 protein kg\(^{-1}\).

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