REGISTRATION OF UC 195 VERY NONDORMANT ALFALFA GERMPLASM WITH HIGH RESISTANCE TO BLUE ALFALFA APHID AND FUSARIUM WILT, AND RESISTANCE TO PHYTOPHTHORA ROOT ROT

UC 195 (Reg. no. GP-251, PI 552543) alfalfa (Medicago sativa L.) germplasm was released by the Department of Agronomy and Range Science, University of California, Davis, and the USDA-ARS in January 1990. UC 195 is a very nondormant germplasm with high resistance to the blue alfalfa aphid (Acrystosiphon kondoi Shinji) and fusarium wilt [caused by Fusarium oxysporum Schlechtend. f. sp. medicaginis (J.L. Weimer) W.C. Snyder & H.N. Hans.] and resistance to phytophthora root rot (caused by Phytophthora megasperma Drechs. f. sp. medicaginis T. Kuan & D.C. Erwin).

UC 195 is a 242-clone synthetic germplasm selected for resistance to the blue alfalfa aphid under cage both in El Centro, CA, and Tucson, AZ. Its parentage traces to four germplasm pools: BAA1 (a germplasm developed by the USDA-ARS Legume Insect Laboratory, Tucson, AZ), 37%; ‘CUF 101’, 33% (1); ‘UC Salton’—type material, 28% (2); and ‘Mesa Sirsa’, 2%. Synthetic 1 seed was produced in a cage with honeybee (Apis mellifera L.) pollen vectors.

Percent resistant plants to blue alfalfa aphid at Tucson were 73, 56, and 0.7, for UC 195, CUF 101 (R) (3), and ‘Caliverde’ (S), respectively. At St. Paul, MN, percent resistant plants to fusarium wilt were 69, 73, and 33 for UC 195, ‘Moapa 69’ (R), and ‘Narragansett’ (S), respectively. Percent resistant plants to phytophthora root rot were 43, 43, and 29, for UC 195, ‘Agate’ (R), and ‘Saranac’ (S), respectively. UC 195 is a high-yielding germplasm that produced 108% of Moapa 69 in a 5-yr hay production test at Five Points, CA, in the central San Joaquin Valley (4).

Five grams of seed of UC 195 will be distributed, until depleted, upon written request and agreement to make appropriate recognition of its source as a matter of open record when this germplasm contributes to the development of a new cultivar, hybrid, or germplasm. Requests for seed should be directed to Mr. Larry Gibbs, University of California, 1004 E. Holton Rd., El Centro, CA 92243.

REGISTRATION OF UC 222 AND UC 263 VERY NONDORMANT ALFALFA GERMPLASMS WITH HIGH RESISTANCE TO BLUE ALFALFA APHID

UC 222 (Reg. no. GP-250, PI 552545) and UC 263 (Reg. no. GP-251, PI 552548) alfalas (Medicago sativa L.) germplasms were released by the Department of Agronomy and Range Science, University of California, Davis, and the USDA-ARS in January 1990. UC 222 and UC 263 are very nondormant germplasms with high resistance to the blue alfalfa aphid (Acrystosiphon kondoi Shinji).