megasperma Drechs. f. sp. medicaginis T. Kuan & D.C. Erwin).

UC 189 is an 18-plant synthetic resulting from three cycles of recurrent phenotypic selection for bacterial wilt resistance at St. Paul, MN. CUF 101 (2) served as the base population, and UC 143 and UC 123 (1) were intermediate germplasms. UC 231 is a 235-plant synthetic from the second and third cycles of selection for bacterial wilt resistance at St. Paul and traces to CUF 101 (75%) and UC 103 (25%), a population selected from ‘UC Salton’ (3) in a low, wet area near Blythe, CA. Resistant plants for each germplasm were space planted in cages and intercrossed using honeybee (Apis mellifera L.) as the pollen vector.

Percent resistant plants to fusarium wilt were 77, 77, 72, and 4 for UC 189, UC 231, ‘Moapa 69’ (R) (4), and MN GN-1 (S), respectively. Percent resistant plants to bacterial wilt were 17, 39, 42 and < 1 for UC 189, UC 231, ‘Vernal’ (R), and ‘Narragansett’ (S), respectively. Percent resistant plants to phytophthora root rot were 15, 20, 43 and 6 for UC 189, UC 231, ‘Agate’ (R) and ‘Saranac’ (S), respectively.

Five grams of seed of UC 189 and UC 231 will be distributed, until depleted, upon written request and agreement to make appropriate recognition of their source when they contribute to the development of a new cultivar, hybrid or germplasm. Requests should be directed to Mr. Larry Gibbs, University of California, 1004 E. Holton Rd., El Centro, CA 92243.

W. F. LEHMAN, D. K. BARNES, F. I. FROSHEISER, AND V. L. MARBLE* (5)

References and Notes

4. R = resistant; S = susceptible.
5. W.F. Lehman (deceased), Agronomist, Univ. of Calif. El Centro, CA; D. K. Barnes, USDA-ARS, Dep. of Agronomy and Plant Genetics, Univ. of Minn., 411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108; F. I. Frosheiser (deceased), USDA-ARS and Dep. of Plant Pathology, Univ. of Minn.; and V. L. Marble, Extension Agronomist, Dep. of Agronomy and Range Science, Univ. of Calif., Davis, CA 95616. Registration by CSSA. Accepted 31 July 1991. *Corresponding author.


phthora 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 parent germplasm pools: BAA1 (a germplasm developed by the USDA-ARS Legume Insect Laboratory, Tucson, AZ), CUF 101 (2%); ‘UC Salton’-type material, 33% (1); ‘UC Salton’-type material, ‘Caliverde’ (S), respectively. At St. Paul, percent resistant plants to fusarium wilt were 73, 56, and 0.7, for UC 195, CUF 101 (R) (3), and ‘Caliverde’ (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.

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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-255, PI 552543) alfalfa (Medicago saliva 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 (Acyrthosiphon kondoi Shinji) and fusarium wilt (caused by Fusarium oxysporum Schlectend. 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).

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