

PI 564781 to 564783-continued

PI 564783 **donor id:** 91-Bol-5. **origin:** Bolivia. **local name:** Mani rosada. **collected:** August 27, 1991. **collector:** J. Argota, L. Guzman, Cent. de Invest. Fitoecogeneticas de Pairumani, Casilla 128, Cochabamba, Bolivia. **locality:** Panata market, grown in Chuguisaca. Cultivated. Seed.

PI 564784 to 564788. *Oryza sativa* L. POACEAE Rice

Donated by: Schaeffer, G.W., Agricultural Research Service -- USDA, Plant Molecular Biology Laboratory, Beltsville, Maryland 20705-2350, United States. **remarks:** Five Rice Lysine Germplasms. Received January 25, 1993.

PI 564784 **origin:** United States. **developed:** G.W. Schaeffer, F.T. Sharpe, Jr., J.T. Dudley. **origin institute:** Agricultural Research Service -- USDA, Plant Molecular Biology Lab., Bldg. 006, BARC-West, Beltsville, Maryland 20705 United States. **cultivar:** 2K41. **pedigree:** In vitro-selected (Mut) (995)/Calrose 76, selfed to F5. **other id:** GP-73. **group:** CSR-RICE. **restricted:** CSR. **remarks:** Enhanced lysine 3.9% of total amino acids in acid hydrolyzates of endosperm and 15% over starting cultivar. Plants derived from in vitro inhibitor selections, fertility 65% field, 80% greenhouse. Semidwarf, height 110cm. Flowers in 110 days. Seed weight 18.9mg/seed. Endosperm soft, opaque. Has value for basic studies on seed chalkiness, lysine content and protein synthesis. Constitutive for some stress related proteins. Spring Annual. Genetic Material. Seed.

PI 564785 **origin:** United States. **developed:** G.W. Schaeffer, F.T. Sharpe, Jr., J.T. Dudley. **origin institute:** Agricultural Research Service -- USDA, Plant Molecular Biology Lab., Bldg. 006, BARC-Wesst, Beltsville, Maryland 20705 United States. **cultivar:** 2K539. **pedigree:** Mutant (2K539)/M101 (glabrous), selfed to F7. **other id:** GP-74. **group:** CSR-RICE. **restricted:** CSR. **remarks:** Enhanced seed lysine 3.8% of total amino acids in acid hydrolyzates of endosperm. Seeds derived from plants recovered from in vitro inhibitor selections. Plants semidwarf, 115cm. Flowers in 115 days. Seed weight 19.2mg/seed, fertility 60-70%. Endosperm soft, opaque. Has value for basic studies on seed chalkiness, lysine content and protein synthesis. Constitutive for some stress related proteins. Spring Annual. Genetic Material. Seed.