

12. DEINOSTEMA T. Yamazaki, J. Jap. Bot. 28: 131. 1953.

泽番椒属 ze fan jiao shu

Herbs. Leaves opposite, sessile. Flowers solitary, axillary. Bracteoles absent. Calyx 5-lobed almost to base; lobes valvate in bud. Corolla conspicuously 2-lipped; lower lip 3(or 4)-lobed, patent; upper lip 2-lobed, shorter than lower lip. Fertile stamens 2, posterior; filaments apically distorted; anthers hairy; staminodes 2, posterior, almost completely reduced. Capsule septifragal. Seeds ellipsoid; seed coat reticulate.

Two species: Japan, Korea, Russia; both in China.

1a. Leaves linear, to 1 mm wide; pedicel to 4 mm 1. *D. violacea*

1b. Leaves ovate to ovate-orbicular, more than 3 mm wide; pedicel more than 6 mm 2. *D. adenocaula*

1. Deinostema violacea (Maximowicz) T. Yamazaki, J. Jap.

Bot. 28: 132. 1953.

泽番椒 ze fan jiao

Gratiola violacea Maximowicz, Mélanges Biol. Bull.

Phys.-Math. Acad. Imp. Sci. Saint-Pétersbourg 9: 407.

1874.

Annuals. Stems slender, ca. 20 cm tall, glabrous.

Leaves linear-subulate, to 10 × 1 mm, margin entire.

Pedicel to 4 mm. Calyx 3–5 mm in fruit; lobes subulate.

Capsule ovoid-ellipsoid, ca. 2 mm. Seeds yellow-brown, ca. 0.5 mm.

Swamps. Heilongjiang, Jiangsu (Jurong Xian), Jilin, Liaoning [Japan, Korea, Russia (Far East)].

2. Deinostema adenocaula (Maximowicz) T. Yamazaki, J.

Jap. Bot. 28: 132. 1953.

有腺泽番椒 you xian ze fan jiao

Gratiola adenocaula Maximowicz, Bull. Acad. Imp.

Sci. Saint-Pétersbourg 32: 513. 1888.

Annuals. Stems 7–15 cm tall, simple or basally branched, ± succulent, basally subglabrous, apically sparsely capitate glandular. Leaves ovate-orbicular to ovate, 5–10 × 3–8 mm, smaller on branches, glabrous, base subamplexicaul, margin entire, apex acute to obtuse; veins 5–9, conspicuous or inconspicuous. Pedicel mostly straight, slender, 0.6–1.5 cm, capitate glandular. Calyx 2–2.5 mm, glabrous; lobes linear-lanceolate. Corolla blue, ca. 5 mm, middle lobe of lower lip 2-lobed. Style short. Capsule ovoid, as long as or slightly shorter than calyx, at first 2-loculicidal and later 4-valved. Seeds ellipsoid, reticulate. Fl. Aug.

Abandoned rice fields. Guizhou (Jiangkou Xian), Taiwan [Japan, Korea].

