

**48. TRIPHYSARIA** Fischer & C. A. Meyer, Index Hort. Petrop. 2: 52. 1836.

直果草属 zhi guo cao shu

Herbs, annual, hemiparasitic. Leaves alternate. Spikes terminal; bracts often broader than leaves. Calyx subequally 4-lobed. Corolla elongated, conspicuously 2-lipped; lower lip 3-lobed, base of lobes  $\pm$  saccate; upper lip slightly longer than lower lip, rostrate, entire. Stamens 4, didynamous; anthers 1-loculed. Stigma entire. Capsule compressed, 2-sulcate, loculicidal. Seeds numerous.

Six species: W North America, particularly California; one species in China.

**1. *Triphysaria chinensis*** (D. Y. Hong) D. Y. Hong, Novon 6: 374. 1996.

直果草 zhi guo cao

*Orthocarpus chinensis* D. Y. Hong, Fl. Reipubl.

Popularis Sin. 67(2): 405. 1979.

Annuals, diffuse, ca. 15 cm tall, white hirsute. Stems much branched basally. Leaves several, sessile, broadly linear, 1–2 cm, parted into several narrow segments. Spikes elongated, almost from base of stems, lax; bracts deltoid-orbicular, longer than flowers and fruit, palmatisect, segments parted. Calyx tubular, 5–7 mm, parted to middle; lobes subulate-triangular, lower 2 slightly shorter than others. Corolla 5–6 mm; limb purple;

tube yellow when dry; lower lip shallowly saccate, obscurely toothed; upper lip apex hooklike. Anthers narrowly ellipsoid. Capsule oblong, glabrous, ca.  $3.5 \times 2.5$  mm. Seeds dark brown, ca. 1 mm, curved; seed coat transparent, reticulate. Fl. Sep–Oct.

• W Hubei (Xingshan Xian).

*Triphysaria chinensis* is similar to the North American species *T. pusilla* (Bentham) Chuang & Heckard, from which it differs in having palmatisect rather than pinnatisect bracts and transparent and reticulate seed coat. The great disjunction and close relationship between these two species is unexplained. *Triphysaria chinensis* is only known from the type specimen collected in 1926.

