

**SOLANUM TERGOSERICUM (SOLANACEAE: SECT.
BASARTHURUM): A NEW SPECIES FROM PERU**

Carlos M. Ochoa

International Potato Center
P.O. Box 1558, Lima, Peru

ABSTRACT

This report presents a new species of nightshade from northern Peru, *Solanum tergo-sericeum* Ochoa **sp. nov.** (Dept. Cajamarca, prov. San Ignacio). The lower surface of its leaves are densely sericeous, whereas the upper surfaces are covered only with very fine hairs along the central veins of the leaflets. Additionally it has very small, pale violet, stellate corollas with whitish margins. The fruit is narrowly long-conic, and the apex is acute.

Key Words: *Solanum tergo-sericeum*, northern Peru, new species.

Solanum tergo-sericeum Ochoa, **sp. nov.** Fig. 1, 2.

TYPE: Peru: Dept. Cajamarca, prov. San Ignacio, Derrumbe Blanco, alt. ca. 1800 m, on the lower slopes of Montaña del Chaupe, driving upwards from Tamborapa towards Chaupe. Along the margins of humid, tropical forests, 1 May 1995. C. Ochoa & A. Salas 16249 (Holotype MJP; Isotype MOL).

Plantae plerumque ascendentes interdum decubentes, 2-3 m attingentes. Caulis potius tenuis debilisque, sparse pilosus, simplex vel ramosus, internodiis 10-15 cm longis. Folia imparipinnata 8-17 x 4-10 cm; petioli 7-10 mm longi; 5 paria foliola lateralia 0-1(-2) paribus interfoliolorum minusculorum. Foliola lateralia ad 5.5-1.0 cm valde anguste elliptico-lanceolata longe acuminata, ad basim oblique rotundata, subsessilia vel breviter petiolulata., infima valde reducta, terminalium symmetricum longe acuminatum, cum cetera parce major. Folia adaxialiter nervo medio molliter pubescenti ceterum glabra, abaxialiter pilis tenuibus mollis adpressisimis superficie dense



Fig. 1. Holotype of *Solanum tergo-sericeum* Ochoa.

argenteo-sericea eferens. Inflorescentiae laterales pedunculatae cymosae 8-10 floribus, pedunculo simplicitenui 7-12 mm ad basim articulado. Calyx 5-6 mm longus, sparse pilosus usque ad médium lobatus lobis lanceolatis vel angusti-lanceolatis acuminatissimis.



Fig. 2. Adaxial side of the foliole of *Solanum tergo-sericeum* Ochoa, x 15

Corolla stellata vel substellata 7-8 mm diametrum, pallide violacea marginibus albidis, lobis ellipticis vel late-ellipticis bene obtusis sed apice apiculato. Antherae 3.0-3.5 mm longae, anguste elliptico-lanceolatae, filamentis brevissimis fere obsoletis. Stylus 5 mm filiformis stamina 1.0-1.5 mm excedens. Stigma ovoideum. Fructus anguste elongato-conicus viridis, 10-12 x 3-4 mm.

Plants 2-3 m high, usually ascending or decumbent; stem weak, slender, sparsely pilose, simple or branched, internodes 10-15 cm long. Leaves odd-pinnate, 8-17 long by 4-10 cm wide, on petioles 7-10 cm long, and with 5 pairs of lateral leaflets and (0)-1(-2) pairs of very small interstitial leaflets; lateral leaflets up to 5.5 cm long and 1.0 cm wide, very narrowly elliptic-lanceolate with long-acuminate apices, rounded at the oblique base, sessile or shortly petiolulate, the lowermost pair much reduced; terminal leaflet symmetrical, long acuminate, a little larger and wider than the laterals. Leaflets densely sericeous below, with very fine soft and long adpressed and silvery, simple or 2-celled hairs above, with soft hairs present only on the central vein of the leaflets and margins, the remaining surfaces glabrous. Pseudoestipular leaves falcate with acute apex, 6-7 mm long by 3-4 mm wide. Inflorescence lateral, cymose; 8-10 flowered; peduncle simple, slender, up to 12.5 cm long, glabrous to subglabrous; pedicels filiform, 7-12 mm long, articulate at the base. Calyx 5-6 mm

long, very sparsely pilose, divided to about the middle into ovate-lanceolate or narrowly lanceolate acuminate lobes. Corolla stellate to sub-stellate, 7-8 mm in diam., light violet with white borders; lobes elliptic to broadly elliptic, very obtuse at the apiculate apex. Anthers 3.0-3.5 mm long, narrowly elliptic-lanceolate; filaments extremely short, almost obsolete; style ca. 5 mm long, filiform, exceeding the stamens by 1.0-1.5 mm; stigma ovoid. Fruit green, narrowly long-conic, with an acute apex, 10-12 mm long and 3-4 mm thick.