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## TRACHELOSIDE FROM THE SEEDS OF *CARTHAMUS TINCTORIUS*

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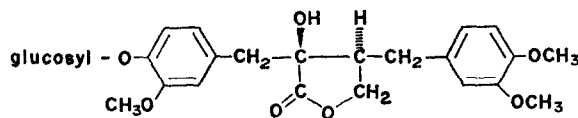
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**Key Word Index**—*Carthamus tinctorius*: Compositae; lignan; tracheloside; 4',8'-dihydroxy-3,4,3'-trimethoxy-lignanolid (9,9')-4'- $\beta$ -D-glucopyranoside.

Matairesinol monoglucoside was recently reported as one of the components of safflower meal (*Carthamus tinctorius* L.).<sup>1,2</sup> We now report the isolation of tracheloside (I)\* from the seeds of this plant. The seeds were powdered, washed with ether and extracted with hot methanol. The methanol solution was evaporated, diluted with water, and extracted with chloroform. The aqueous layer was concentrated to a syrup which was extracted with hot ethyl acetate. The extract was chromatographed on silica gel and eluted with  $\text{CHCl}_3$ -EtOH (8:2).

The isolated glycoside, m.p. 166–168°, (0.4% of seeds) was identified as I by IR, TLC and m.m.p. with an authentic sample, m.p. 168–170°,  $[\alpha]_D^{20}$  –60.0° (EtOH), isolated from stem of *Trachelospermum* plants (Apocynaceae).<sup>3</sup>



(I) Tracheloside

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\* The position of glucose of I reported in the previous paper<sup>4</sup> was wrong and should be as shown in I.<sup>5</sup> The absolute configuration was also determined.<sup>5</sup>

<sup>1</sup> R. PALTER, and R. E. LUNDIN, *Phytochem.* **9**, 2407 (1971).

<sup>2</sup> R. PALTER, W. F. HADDON and R. E. LUNDIN, *Phytochem.* **10**, 1587 (1971).

<sup>3</sup> I. INAGAKI, S. HISADA and S. NISHIBE, *Phytochem.* **10**, 211 (1971).

<sup>4</sup> S. NISHIBE, S. HISADA and I. INAGAKI, *Chem. Pharm. Bull. Tokyo* **19**, 866 (1971).

<sup>5</sup> S. NISHIBE, S. HISADA and I. INAGAKI, *Chem. Pharm. Bull. Tokyo* in press.

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## 1,8-CINEOLE AND SITOESTEROL FROM *CHRYSACTINIA MEXICANA*

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**Key Word Index**—*Chrysactinia mexicana*; Compositae; 1,8-cineole; hexacosanol; sitosterol.

*Plant.* *Chrysactinia mexicana*, Gray (falsa damiana) (voucher No. 7196). *Occurrence.*