

SITOESTEROL AND β -SITOSTANOL FROM *TRITICALE*

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Key Word Index—*Triticum aestivum*; *Secale cereale*; *Triticale*; Gramineae; hexacosane; sitosterol; sitostanol.

Plant. *Triticale* (1) hibrid from *Triticum aestivum* and *Secale cereale*. The seeds were collected from the experimental field of Cimmyt in Mexico. *Previous work.* None. *Uses.* On study for possible human food.

The powdered seeds (4000 g) were Soxhlet extracted with light petroleum (39–60°). The residue was further extracted with EtOH. The light petroleum extract (50 g) was saponified with KOH–MeOH and unsaponifiable fraction (10 g) was taken into isopropyl ether. Column chromatography over silica gel gave: hexacosane, $C_{26}H_{54}$, IR NMR and m.m.p.; sitosterol (eluted with $CHCl_3$) identified by m.m.p.; MW. 414 (M^+), IR, NMR, and co-TLC of the sterol and its acetate; β -sitostanol $C_{29}H_{52}O$, MW 416 (M^+) superposable IR and NMR of it and its acetate with the ones from authentic compounds. co-TLC and m.m.p.

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² R. P. Linstead, A. Rutenberg, W. G. Dauben and W. L. Evans, *J. Am. Chem. Soc.* **62**, 3260 (1940).