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L-3-(3-CARBOXY-4-FURYL)ALANINE FROM *TRICHOLOMOPSIS RUTILANS*

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Key Word Index—*Tricholomopsis rutilans*; Tricholomataceae; Basidiomycetes; L-3-(3-carboxy-4-furyl)alanine.

Doyle and Levenberg [1] reported recently a new amino acid L-3-(3-carboxy-4-furyl)alanine from *Phyllotopsis nidulans* (Pers. ex Fr.) Sing. Independently we also isolated the same amino acid from another fungus, *Tricholomopsis rutilans* (Fr.) Sing.* Identification was based on IR and TLC comparison with an authentic sample from *Phyllotopsis*.

EXPERIMENTAL

The amino acid fraction obtained from the fruit bodies (3 kg) was fractionated with a column of Dowex 1 (AcO⁻)

and 0.5 N HOAc as an eluting agent, giving pure fractions. Yield: 695 mg. Mp 215–6° (decomp.) [α]_D²⁰ –48° (c 1, H₂O), –28° (c 0.5, 3 N HCl). UV: $\lambda_{\text{max}}^{\text{H}_2\text{O}}$ 239 nm (ϵ 2100), pH 4.3. IR (furan): 3135, 875, 803 and 772 cm⁻¹. NMR (in 5% DCl, DSS): δ 3.3 (m), 4.36 (q), 7.45 (s) and 8.05 (d, J 1.2 Hz).

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MAIN FLAVONOIDS IN NEEDLES OF *LARIX DECIDUA**

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Key Word Index—*Larix decidua*; Pinaceae; Gymnospermae; flavonoids.

Plant. *Larix decidua* Mill. Voucher specimen No. GN3, Institute for Systematic Botany, University Utrecht. *Source*. Arboretum Schovenhorst,

Putten, The Netherlands, Aug. 1973. *Previous work on leaves*. Lipids [1], sterols [2], *O*-methylinositols [3], and organic acids [4].