

**HEARTWOOD:** Matairesinol, conidendrin, seco-isolariciresinol, quercetin, kaempferol, taxifolin, aromadendrin, genistein, podospicatin, sequoyitol.—

Brewerton, H. V., 1958. *N.Z. J. Sci.*, 1: 220.

Briggs, L. H., Cebalo, T. P., 1959. *Tetrahedron*, 6: 145.

Briggs, L. H., Cambie, R. C., Hoare, J. L., 1959. *Tetrahedron*, 7: 262.

Freudenberg, K., Weinges, K., 1959. *Tetrahedron Letters*, No. 17: 19.

Freudenberg, K., Sidhu, G. S., 1961. *Chem. Ber.*, 94: 851.

Weinges, K., 1961. *Chem. Ber.*, 94: 2522.

Weinges, K., 1961. *Chem. Ber.*, 94: 3032.

Briggs, L. H., Cebalo, T., 1963. *Tetrahedron*, 19: 2301.

Farkas, L., Várady, J., 1963. *Acta Chim. Acad. Sci. Hung.*, 38: 283.

Farkas, L., Várady, J., 1963. *Magyar Kem. Folyoirat.*, 69: 458.

Várady, J., 1963. *Periodica Polytech.*, 7: 241.

**Podocarpus ferrugineus** G. Benn. ex D. Don. ("Miro").

**ESSENTIAL OIL:** (+)- $\alpha$ -Pinene, (+)-limonene, dipentene, cineole, (+)-cadinene, phyllocladene, isophyllocladene, kaurene, rimuene, cupressene.—

Hosking, J. R., Short, W. F., 1928. *Rec. trav. chim.*, 47: 834.

Hosking, J. R., 1930. *Rec. trav. chim.*, 49: 1036.

Briggs, L. H., Cawley, R. W., Loc, J. A., Taylor, W. I., 1950. *J. chem. Soc.*: 955.

Briggs, L. H., Cain, B. F., Cambie, R. C., Davis, B. R., Rutledge, P. S., 1962. *J. chem. Soc.*: 1850.

Aplin, R. T., Cambie, R. C., Rutledge, P. S., 1963. *Phytochem.* 2: 205.

Briggs, L. H., Cambie, R. C., Rutledge, P. S., Stanton, D. W., 1964. *Tetrahedron Letters*, No. 32: 2223.

(See also under phyllocladene, kaurene, rimuene, and cupressene.)

**BLD RESIN:** (+)- $\alpha$ -Pinene,  $\beta$ -pinene, ferruginol,  $\Delta^6$ -dehydroferruginol, sugiol, isopimaric acid.—

Easterfield, T. H., 1910. *Trans. N.Z. Inst.*, 43: 53.

Brandt, C. W., Neubauer, L. G., 1939. *J. chem. Soc.*: 1031.

Brandt, C. W., Neubauer, L. G., 1940. *J. chem. Soc.*: 683.

Campbell, W. P., Todd, D., 1940. *J. Amer. chem. Soc.*, 62: 1287.

Campbell, W. P., Todd, D., 1942. *J. Amer. chem. Soc.*, 64: 928.

Brossi, A., Jeger, O., 1950. *Helv. Chim. Acta*, 33: 722.

Bredenberg, J-B., 1957. *Acta Chem. Scand.*, 11: 932.

Briggs, L. H., Cambie, R. C., 1960. *Tetrahedron*, 8: 356.

(See also under ferruginol, sugiol, and isopimaric acid.)

**BARK:** Tannins.—

Aston, B. C., 1918. *N.Z. J. Agric.*, 16: 358.

**Podocarpus nivalis** Hook. ("Mountain totara").

**ESSENTIAL OIL:** (—)- $\alpha$ -Pinene (?), myrcene, unidentified sesquiterpene, phyllocladene, isophyllocladene, kaurene, cupressene.—

Murray, J., 1960. *J. appl. Chem.*, 10: 366.

Aplin, R. T., Cambie, R. C., Rutledge, P. S., 1963. *Phytochem.*, 2: 205.

**HEARTWOOD:** Totarol, podototarol, podototarol mono-acetate, podocarpic acid, methyl podocarpate,  $\beta$ -sitosterol, alkanes  $C_{13}$ ,  $C_{14}$ , and  $C_{21}$ – $C_{31}$  inclusive.

Bennett, C. R., 1965. *Thesis, Univ. Auckland.*

(See also under totarol and podocarpic acid.)