

# **A New Bioactive Steroidal Saponin from *Agave attenuata***

Bernadete P. da Silva, Allyne C. de Sousa, Graziela M. Silva,  
Tatiana P. Mendes and José P. Parente\*

Laboratório de Química de Plantas Medicinais, Núcleo de Pesquisas de Produtos Naturais,  
Universidade Federal do Rio de Janeiro, PO Box 68045 CEP 21944-970 Rio de Janeiro,  
Brazil. Tel.: +55-21-2270-2683; Fax: +55-21-2562-6791. E-mail: parente@nppn.ufrj.br

\* Author for correspondence and reprint requests

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A new steroidal saponin was isolated from the leaves of *Agave attenuata* Salm-Dyck. Its structure was established as (3 $\beta$ ,5 $\beta$ ,22 $\alpha$ ,25 $S$ )-26-( $\beta$ -D-glucopyranosyloxy)-22-methoxyfurostan-3-yl *O*- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)-*O*-[ $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 3)]- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-galactopyranoside. The structural identification was performed using detailed analyses of  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectra including 2D NMR spectroscopic techniques (COSY, HETCOR and COLOC) and chemical conversions. The haemolytic potential of the steroidal saponin was evaluated and the anti-inflammatory activity was performed using the capillary permeability assay.