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ABSTRACT

One new cardenolide glycoside \([3\beta-O-(L-2',O-acetyl thevetosyl)-15(8\rightarrow14)-abeo-5\beta-(8R)-14-oxo-card-20(22)-enolate (SC05)]\) together with four known cardenolide glycosides \([3\beta-O-(L-thevetosyl)-14\beta-hydroxy-5\beta-card-20(22)-enolide (SC01), 3\beta-O-(L-2',O-acetyl thevetosyl)-14\beta-hydroxy-5\beta-card-20(22)-enolide (SC02), 3\beta-O-(L-thevetosyl)-14\beta-hydroxy-5\beta-17\beta-card-20(22)-enolide (SC03) and 3\beta-O-(L-thevetosyl)-15(8\rightarrow14)-abeo-5\beta-(8R)-14-oxo-card-20(22)-enolide (SC04)\) were isolated from the fresh seeds of \(Cerbera odollam\). Fresh latex of this plant yielded seven known compounds: five triterpenes \([Urs-12-ene-3\beta-acetate (LC01), Olean-12-ene-3\beta-acetate (LC02), Lup-20(29)-ene-3\beta-acetate (LC03), Lanosta-7-24-dien-3\beta-ol. (LC04) and Ergosta-8,24(28)-dien-3\beta-ol (LC05)]\) and two steroids \([5,24(28)-Stigmastadien-3\β-ol (LC06) and 7,24(28)-Stigmastadiene-3\β-ol (LC07)]\). Four known compounds were isolated from the barks of \(C.odollam\): Cerbinal (BC01), 3\β-Sitosterol (BC02), 2,6-Dimethoxybenzoquinone (BC03) and 3, 5-dimethoxy-4-hydroxybenzaldehyde (BC04). Their structures were elucidated by spectroscopic methods. In addition, the structures of SC01, SC02, LC01, LC02 and BC01 were confirmed by X-ray diffraction.
SC01: R= H; 17α-H; 3β-O-(L-thevetosyl)-14β-hydroxy-5β-card-20(22)-enolide

SC02: R= Ac; 17α-H; 3β-O-(L-2'-O-acetyl thevetosyl) -14β-hydroxy-5β-card-20(22)-enolide

SC03: R= H; 17β-H; 3β-O-(L-thevetosyl)-14β-hydroxy-5β-card-20(22)-enolide

SC04: R= H; 3β-O-(L- thevetosyl)-15(8→14)-abeo-5β-(8R)-14-oxo-card-20(22)-enolide

SC05: R= Ac; 3β-O-(L-2'-O-acetyl thevetosyl)-15(8→14)-abeo-5β-(8R)-14-oxo-card-20(22)-enolide
**LCO1**: Urs-12-en-3β-acetate

**LCO2**: Olean-12-en-3β-acetate

**LCO3**: Lup-20(29)-en-3β-acetate

**LCO4**: Lanosta-7-24-dien-3β-ol

**LCO5**: 4α, 14α-Simethyl-5α-ergosta-8,24(28)-dien-3β-ol.

**LCO6**: 5, 24(28)-Stigmastadien-3β-ol.
LCO7: 7, 24(28)-Stigmastadien-3β-ol

BCO1: Cerbinal

BCO2: β-Sitosterol

BCO3: 2, 6-Dimethoxybenzoquinone

BCO4: 3,5-Dimethoxy-4-hydroxybenzaldehyde