Supporting Information

Rec. Nat. Prod. 13:2 (2019) 104-113

Wound-Healing Activity of Some Species of *Euphorbia* L.

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S1: Incision Wound Model

S2: Excision Wound Model
S3: Permission Letter of Local Ethics Committee
| Name                                      |
|------------------------------------------|
| 1 euphanginol                             |
| 2 cyclocaryophylla-4-en-8-ol             |
| 3 4β,5α-epoxy-4,5-dihydrocaryophyllen-14-ol |
| 4 clovandiol                              |
| 5 euphorbioside A                        |
| 6 euphorbioside B                        |

*S4: Chemical structure of some sesquiterpenoids isolated from *Euphorbia* species*
**S5**: Chemical structure of some diterpenoids (jatrophanes) isolated from *Euphorbia* species
| Name                                                                 | R₁   | R₂     | R₃     | R₄     | R₅     |
|----------------------------------------------------------------------|------|--------|--------|--------|--------|
| 3β,12α-diacetoxy-19-hydroxy-7α,8α-ditigloyloxyingol                   | Ac   | Tgl    | Tgl    | OH     | Ac     |
| 3β,12α-19-triacetoxy-7α-hydroxy-8α-ditigloyloxyingol                 | Ac   | H      | Tgl    | OAc    | Ac     |
| 12α-19-diacetoxy-3β,7α-hydroxy-8α-ditigloyloxyingol                  | H    | H      | Tgl    | OAc    | Ac     |
| 3β,8α,12α-triacetoxy-7α-isovaleryloxyingol                           | Ac   | iVal   | Ac     | H      | Ac     |
| 3β,8α,12α-triacetoxy-7α-angeloxyingol                                | Ac   | Ang    | Ac     | H      | Ac     |
| 3β,7α,12α-triacetoxy-8α-isovaleryloxyingol                           | Ac   | Ac     | iVal   | H      | Ac     |
| 3β,7α,12α-triacetoxy-8α-benzyloxyingol                               | Ac   | Ac     | Bz     | H      | Ac     |
| 3β,12α-diacetoxy-8α-benzyloxy-7α-hydroxyingol                        | Ac   | H      | Bz     | H      | Ac     |
| 3β,12α-diacetoxy-7α-benzyloxy-8α-nicotinoyloxyingol                  | Ac   | Bz     | Nic    | H      | Ac     |
| 3β,12α,19-triacetoxy-8α-nicotinoyloxy-7α-phenylacetoxyingol          | Ac   | PhAc   | Nic    | OAc    | Ac     |
| 3β,12α,19-triacetoxy-8α-hydroxy-7α-phenylacetoxyingol                | Ac   | PhAc   | H      | OAc    | Ac     |

Tigl : tigloyl, Ang : angeloyl, iVal : isovaleryl, PhAc : Phenylacetyl,

**S6:** Chemical structure of some diterpenoids (lathyranes) isolated from *Euphorbia* species
### Name and Structure

| Name                                                                 | $R_1$ | $R_3$ | $R_1$ | $R_4$ |
|----------------------------------------------------------------------|-------|-------|-------|-------|
| 5α,15β-di-O-acetyl-7β,14β-di-O-nicotinoyl-14-desoxo-3β-O-propanoylmysinol | Pr    | Nic   | Nic   | Ac    |
| 3β,5α,15β-tri-O-acetyl-7β,14β-di-O-nicotinoyl-14-desoxomyrsinol      | Ac    | Nic   | Nic   | Ac    |
| 3β,5α,15β-tri-O-acetyl-7β-O-benzoyl-14β-O-nicotinoyl-14-desoxomyrsinol | Ac    | Bz    | Nic   | Ac    |
| 5α,15β-di-O-acetyl-7β-O-benzoyl-14β-O-nicotinoyl-14-desoxo-3β-O-propanoylmysinol | Pr    | Bz    | Nic   | Ac    |
| 5α, 14β, 15β-tri-O-acetyl-7β-O-benzoyl-14-desoxo-3β-O-propanoylmysinol | Pr    | Bz    | Ac    | Ac    |
| 5α, 14β, 15β-tri-O-acetyl-7β-O-nicotinoyl-14-desoxo-3β-O-propanoylmysinol | Pr    | Nic   | Ac    | Ac    |
| 5α, 14β-di-O-acetyl-15β-hydroxy-7β-O-nicotinoyl-14-desoxo-3β-O-propanoylmysinol | Pr    | Nic   | Ac    | H     |

Pr: propanoyl,

#### S7: Chemical structure of some diterpenoids (myrsinanes) isolated from *Euphorbia* species

#### S8: Chemical skeleton structure of ingenane type diterpenoids isolated from *Euphorbia* species

#### S9: Chemical skeleton structure of daphnane type diterpenoids isolated from *Euphorbia* species
S10: Chemical skeleton structure of tigliane type diterpenoids isolated from *Euphorbia* species

S11: Chemical skeleton structure of paraliane type diterpenoids isolated from *Euphorbia* species

S12: Chemical skeleton structure of pepluane type diterpenoids isolated from *Euphorbia* species
S13: Chemical skeleton structure of segetane type diterpenoids isolated from *Euphorbia* species

| Name               | R₁  | R₂    |
|--------------------|-----|-------|
| Lupeol acetate     | Ac  | Me    |
| Betulin            | H   | CH₂OH |
| Betulinic acid     | H   | COOH  |
| Lupeol             | H   | Me    |

Me: methyl

S14: Chemical structure of some triterpenoids isolated from *Euphorbia* species

S15: Chemical structure of β-sitosterol (left) and stigmasterol (right) isolated from *Euphorbia* species
S16: Chemical structure of quercetin and some quercetin derivatives isolated from *Euphorbia* species

| Name | Description |
|------|-------------|
| 1    | quercetin 3-0,6′-(3-hydroxy-3-methylglutaryl)-β-D-glucopyranoside |
| 2    | quercetin 3-0-(2″,3″-digalloyl)-β-D-galactopyranoside |
| 3    | quercetin 3-0-(2″-galloyl)-β-D-galactopyranoside |
quercetin-3-\(O\)-rhamnoside (quercitrin)

quercetin-3-\(O\)-galactoside (hyperoside)

quercetin-3-\(O\)-arabinoside

S17: Chemical structure of some quercetin derivatives isolated from Euphorbia species
S18: Chemical structure of some kaempferol derivatives isolated from *Euphorbia* species
| Name | R                                      |
|------|----------------------------------------|
| Apigenin | H                                    |
| Apigenin-7-O-β-D-glucopyranoside | Glu                                   |
| Apigenin-7-O-β-D-rutinoside      | Rham(1→6) Glu                        |
| Apigenin-7-O-β-D-apiofuranosyl(1→2)-β-D-glucopyranoside | Api(1→2) Glu                |
| Api: apigenin, Rham: rhamnose, Glu: glucose |

| Name | R                                      |
|------|----------------------------------------|
| Luteolin | H                                     |
| Luteolin-7-O-β-D-glucopyranoside | Glu                                   |

| Name | R                                      |
|------|----------------------------------------|
| Quercetin | H                                   |
| Quercetin-3-O-α-L-rhamnosyl(1→6)-β-D-galactoside | Rham (1→6)Gal |
| Quercetin-3-O-β-D-glucopyranoside | Glu                                   |
| Quercetin-3-O-β-D-galactoside | Gal                                   |
| Rham: rhamnose; Gal: galactose |

S19: Chemical structure of some flavonoids isolated from *Euphorbia* species
S20: Chemical structure of Myricetin, Hesperetin and Naringenin isolated from *Euphorbia* species
### Chemical Structure of Some Phenolic Compounds Isolated from *Euphorbia* Species

| Name                                                                 | R₁ | R₂ | R₃ | R₄         |
|----------------------------------------------------------------------|----|----|----|------------|
| 2-hydroxy-4,6-dimethoxy acetophenone                                 | H  | H  | H  | Me         |
| 2,4,6-trimethoxy acetophenone                                        | H  | Me | H  | Me         |
| 2- hydroxy-4,6-dimethoxy -3-methyl acetophenone                      | Me | H  | H  | Me         |
| 2,4,6-trimethoxy-3-methyl acetophenone                               | Me | Me | H  | Me         |
| 2,2’-dihydroxy-4,6-dimethoxy-3-methyl acetophenone                   | Me | H  | OH | Me         |
| 2,4-dihydroxy-6- methoxy acetophenone                                | H  | H  | H  | H          |
| 2,4-dihydroxy-6- methoxy-3-methyl acetophenone                       | Me | H  | H  | H          |
| 2-hydroxy-6-methoxy-3-methyl acetophenone-4-β-D-glucopyranoside      | Me | H  | H  | Glu        |

**Gallic acid**

**Methyl gallate**

**Ellagic acid**

**3,4,3’-tri-O-methyl ellagic acid**

**S21:** Chemical structure of some phenolic compounds isolated from *Euphorbia* species
S22: Chemical structure of some volatile compounds isolated from *Euphorbia* species