**Supplementary materials:**

*Calotropis procera* (Aiton) seeds fixed oil: Physicochemical analysis, GC-MS profiling and evaluation of its *in-vivo* anti-inflammatory and *in-vitro* antiparasitic activities

**Authors:**

**Dr. Walaa S.A. Mettwally**, Chemistry of Natural and Microbial Products Department, Pharmaceutical and Drug Industries Research Division, National Research Centre, 12622 Dokki, Giza, Egypt. (Walaa\_sobieh@hotmail.com).

**Dr.Hamdy A. Zahran**, Fats and Oils Department, Food Industries and Nutrition Research Division, National Research Centre, 12622 Dokki, Cairo, Egypt. (hazahran@hotmail.com).

**Dr. Amira ES Khayyal**, Parasitology Department, Faculty of Medicine, Ain Shams University. (amira\_elsaady12@yahoo.com).

**Dr. Manal M. E. Ahmed**, Pharmacology Department, Medical Research Division, National Research Centre, 12622 Dokki, Giza, Egypt. (thinktankteam.2014@gmail.com).

**Dr. Rasha M. Allam**, Pharmacology Department, Medical Research Division, National Research Centre, 12622 Dokki, Giza, Egypt. (rasha\_senior@yahoo.com)

**Dr. Dalia O. Saleh**, Pharmacology Department, Medical Research Division, National Research Centre, 12622 Dokki, Giza, Egypt. (doabdelfattah@yahoo.com).

**Corresponding author:**

Walaa S.A. Mettwally, Chemistry of Natural and Microbial Products Department, Pharmaceutical and Drug Industries Research Division, National Research Centre, 12622 Dokki, Giza, Egypt.

**S1: GC/MS analysis of sterols and hydrocarbons of *C. procera* seed fixed oil**:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Peak | Name | Formula | RT | Area Sum % |
| **Hydrocarbons**  |
| 1 | Dodecane | C12H26 | 15.019 | 0.52 |
| 2 | Undecane, 2,6-dimethyl- | C13H28 | 15.414 | 0.1 |
| 3 | Dodecane, 2-methyl-  | C13H28 | 16.816 | 0.16 |
| 4 | Dodecane, 2,6,10-trimethyl- | C15H32 | 17.068 | 0.14 |
| 5 | pentadecane  | C15H32 | 17.817 | 0.46 |
| 6 | Phenol, 2,4-bis(1,1-dimethylethyl)- | C14H22O | 23.305 | 0.15 |
| 7 | Benzene, (1-butylhexyl)- | C16H26 | 23.871 | 2.67 |
| 8 | Benzene, (1-propylheptyl)- | C16H26 | 24.071 | 1.98 |
| 9 | Benzene, (1-ethyloctyl)- | C16H26 | 24.495 | 1.96 |
| 10 | Benzene, (1-methylnonyl)-  | C16H26 | 25.342 | 2.19 |
| 11  | Benzene, (1-pentylhexyl)- | C17H28 | 26.085 | 4.14 |
| 12 | **Benzene, (1-butylheptyl)-** | **C17H28** | **26.194** | **6.15** |
| 13 | **Benzene, (1-propyloctyl)-** | **C17H28** | **26.412** | **5** |
| 14 | Benzene, 1,1'-butylidenebis- | C16H18 | 26.492 | 0.14 |
| 15 | **Benzene, (1-ethylnonyl)-** | **C17H28** | **26.858** | **4.8** |
| 16 | **Benzene, (1-methyldecyl)-**  | **C17H28** | **27.67** | **5.11** |
| 17 | **6-Phenyldodecane** | **C18H30** | **28.266** | **6.94** |
| 18 | **5-phenyldodecane** | **C18H30** | **28.386** | **5.84** |
| 19 | Benzene, 1,1'-(3-methylbutylidene)bis- | C17H20 | 28.506 | 0.13 |
| 20 | 4- phenyldodecane | C18H30 | 28.62 | 4.81 |
| 21 | 3- phenyldodecane | C18H30 | 29.061 | 4.61 |
| 22 | Benzene, (1-ethyldodecyl)- | C20H34 | 29.324 | 0.11 |
| 23 | 2- phenyldodecane | C18H30 | 29.856 | 4.58 |
| 24 | 6-phenyltridecane | C19H32 | 30.325 | 6.61 |
| 25 | 5- phenyltridecane | C19H32 | 30.463 | 4.02 |
| 26 | Benzene, (1-propyldecyl)- | C19H32 | 30.703 | 3.22 |
| 27 | Benzene, (1-ethylundecyl)- | C19H32 | 31.155 | 3 |
| 28 | Benzene, (1-methyldodecyl)-  | C19H32 | 31.928 | 3.14 |
| 29 | 1-Nonadecene | C19H38 | 33.513 | 0.92 |
| 30 | Heptacosane | C27H56 | 38.943 | 0.35 |
| 31 | Pentacosane  | C25H52 | 42.142 | 0.13 |
| 32 | Squalene | C30H50 | 46.942 | 0.15 |
| 33 | Dotriacontane | C32H66 | 47.886 | 0.17 |
| **Phytosterols and terpenes:** |
| 1 | Campesterol  | C28H48O | 52.321 | 1.84 |
| 2 | Stigmasterol  | C29H48O | 52.744 | 1.05 |
| 3 | 9,19-Cyclolanostane-3,7-diol | C30H52O2 | 53.145 | 0.19 |
| 4 | **γ- Sitosterol** | **C29H50O** | **53.397** | **5.42** |
| 5 | Cholest-5-en-3-ol | C30H50O | 53.7 | 1.37 |
| 6 | Lupeol | C30H50O | 54.472 | 0.82 |