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<td>DOI</td>
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To determine antinociceptive activities of DCM: Methanolic leaf extracts of C. volkensii and M. obscura in rats models.

1. To determine anti-inflammatory activities of DCM: Methanolic leaf extracts of C. volkensii and M. obscura on carrageenan induced paw edema in mice models.

Specific objectives

3. To determine the qualitative phytochemical composition of DCM: Methanolic leaf extracts of C. volkensii and M. obscura.

Materials and methods

Percent licking inhibition by DCM: Methanolic leaf extracts of C. volkensii and M. obscura in phase 1 of the formalin test.

Effects of M. obscura (A. Rich.) on the percent change in carrageenan induced inflammation in mice.

Comparison of the percent change in carrageenan induced inflammation DCM: Methanolic leaf extracts of C. volkensii and M. obscura at various hours of the test period.

Phytochemistry of the Caesalpinia volkensii and Maytenus obscura.

Classes of compounds

Alkaloids
Flavonoids
Steroids
Phenolics
Terpenoids
Saponins
Cardiac glycosides

Present phytochemicals are denoted by (+) sign, absent phytochemicals are denoted by (-) sign.

Conclusions

1. C. volkensii and M. obscura are endowed with potent antinociceptive and anti-inflammatory properties.

2. It’s possible to find opioid analgesics as well as peripherally acting analgesics.

3. C. volkensii and M. obscura extracts contain classes of phytochemicals previously observed to contribute to antinociceptive and anti-inflammatory activities.

4. The present study scientifically confirms the traditional use of the plant for management of pain and inflammation conditions.

5. The null hypothesis are hence rejected.