

## Phytochemical analysis of avocado seeds (Persea americana Mill., c.v. Hass)



Filesize: 3.86 MB

### **Reviews**

*This is the best book i have read until now. It can be filled with knowledge and wisdom Once you begin to read the book, it is extremely difficult to leave it before concluding.*  
*(Nadia Konopelski)*

## PHYTOCHEMICAL ANALYSIS OF AVOCADO SEEDS (PERSEA AMERICANA MILL., C.V. HASS)



To save **Phytochemical analysis of avocado seeds (Persea americana Mill., c.v. Hass)** PDF, please access the link below and save the document or get access to additional information which might be related to PHYTOCHEMICAL ANALYSIS OF AVOCADO SEEDS (PERSEA AMERICANA MILL., C.V. HASS) ebook.

Cuvillier Verlag Okt 2007, 2007. Taschenbuch. Condition: Neu. Neuware - The cultivation of avocado fruits (*Persea americana* Mill.) is expanding around the world. Major producer of this crop is Mexico. In Mexican and African ethnomedicine decocts of avocado seeds are used as a potent remedy against different diseases such as muscle pain, menstruation disturbs and diabetes (Adeboye et al., 1999; Adeyemi et al., 2002). This was one of the initial points for conducting a thorough phytochemical investigation on avocado seeds with the focus on analysis of extractable natural products in respect to their potential use for pharmaceutical and food applications. During avocado fruit processing, the residual seeds will be deposited as waste material. Aim of the study was to analyze the chemical composition of avocado seeds, including preparative isolation and complete structural characterization of the isolated natural products by spectroscopical tools. Bioactivities of crude extracts and also of purified structures were screened by efficient and relatively inexpensive assays. During this research on avocado seeds, the implementation of 'high-speed countercurrent chromatography' (HSCCC) technique proved to be a versatile tool for efficient fractionation and isolation of natural products. The combination with other classical separation methods (i.e. size exclusion gel chromatography, preparative HPLC) resulted in the isolation of 22 natural products from avocado seeds. Isolation procedures were guided by using the TEAC-assay (antioxidant capacity) and the 'brine-shrimp'-assay with *Artemia salina* L. (cytotoxic activity) directing to the bioactive principles. The structure elucidation of the isolated compounds was performed by means of 1D-NMR (<sup>1</sup>H, <sup>13</sup>C, DEPT135, diff-NOe), 2D-NMR (<sup>1</sup>H/<sup>1</sup>H-COSY, HMQC and HMBC). UV/Vis-spectroscopy and circular dichroism (CD), mass spectrometry (GC-EI/MS, direct EI-MS, DCI-MS, and HPLC-ESI-MS/MS) were also applied. Chemical derivatization such as acetylation, enzymatic hydrolysis and thiolysis reaction were conducted for structural confirmation of complex natural products. The recovered compounds from avocado seeds ranged in their polarity from extremely...



[Read Phytochemical analysis of avocado seeds \(Persea americana Mill., c.v. Hass\) Online](#)



[Download PDF Phytochemical analysis of avocado seeds \(Persea americana Mill., c.v. Hass\)](#)

## See Also



**[PDF] Joey Green's Rainy Day Magic: 1258 Fun, Simple Projects to Do with Kids Using Brand-name Products**  
Follow the web link beneath to download "Joey Green's Rainy Day Magic: 1258 Fun, Simple Projects to Do with Kids Using Brand-name Products" PDF document.

[Download ePub »](#)



**[PDF] Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Follow the web link beneath to download "Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications ." PDF document.

[Download ePub »](#)



**[PDF] Dom's Dragon - Read it Yourself with Ladybird: Level 2**

Follow the web link beneath to download "Dom's Dragon - Read it Yourself with Ladybird: Level 2" PDF document.

[Download ePub »](#)



**[PDF] The Healthy Lunchbox How to Plan Prepare and Pack Stress Free Meals Kids Will Love by American Diabetes Association Staff Marie McLendon and Cristy Shauck 2005 Paperback**

Follow the web link beneath to download "The Healthy Lunchbox How to Plan Prepare and Pack Stress Free Meals Kids Will Love by American Diabetes Association Staff Marie McLendon and Cristy Shauck 2005 Paperback" PDF document.

[Download ePub »](#)



**[PDF] Shlomo Aronson: Making Peace with the Land, Designing Israel's Landscape**

Follow the web link beneath to download "Shlomo Aronson: Making Peace with the Land, Designing Israel's Landscape" PDF document.

[Download ePub »](#)



**[PDF] On the Go with Baby A Stress Free Guide to Getting Across Town or Around the World by Ericka Lutz 2002 Paperback**

Follow the web link beneath to download "On the Go with Baby A Stress Free Guide to Getting Across Town or Around the World by Ericka Lutz 2002 Paperback" PDF document.

[Download ePub »](#)