



Phytotherapy Research



[Phytotherapy Research](#)

Volume 15 Issue 3, Pages 213 - 218

Published Online: 8 May 2001

Copyright © 2010 John Wiley & Sons, Ltd.

- [Get Sample Copy](#)
- [Recommend to Your Librarian](#)
- [Save journal to My Profile](#)
- [Set E-Mail Alert](#)
- [Email this page](#)
- [Print this page](#)
- [RSS web feed \(What is RSS?\)](#)

[Save Article to My Profile](#) [Download Citation](#) [Request Permissions](#)

[< Previous Abstract](#) | [Next Abstract >](#)

[Abstract](#) | [References](#) | Full Text: [PDF](#) (Size: 83K) | [Related Articles](#) | [Citation Tracking](#)

Research Article

Antioxidant action of *Tinospora cordifolia* root extract in alloxan diabetic rats

P. Stanely Mainzen Prince, Venugopal P. Menon *

Department of Biochemistry, Annamalai University, Annamalai Nagar - 608 002, Tamil Nadu, India

email: Venugopal P. Menon (cmrana@md3.vsnl.net.in)

* Correspondence to Venugopal P. Menon, Department of Biochemistry, Annamalai University, Annamalai Nagar - 608 002, Tamil Nadu, India

Keywords

Tinospora cordifolia; aqueous extract; alloxan diabetes; antioxidant

Abstract

Tinospora cordifolia is widely used in Indian Ayurvedic medicine for the treatment of diabetes mellitus. Oral administration of 2.5 g and 5.0 g/kg body weight of the aqueous extract of the roots for 6 weeks resulted in a significant reduction in thiobarbituric acid reactive substances (TBARS) and an increase in reduced glutathione (GSH), catalase (CAT) and superoxide dismutase (SOD) in alloxan diabetic rats. The effect of *Tinospora cordifolia* root extract (TCREt) was most prominently seen in the case of rats given 5.0 g/kg body weight. The effect of TCREt was more effective than glibenclamide. Thus our study shows that TCREt exhibits antioxidant action in alloxan diabetes. Copyright © 2001 John Wiley & Sons, Ltd.

Received: 1 March 1999; Accepted: 10 December 1999

Digital Object Identifier (DOI)

10.1002/ptr.707 [About DOI](#)

Related Articles

- Find other [articles](#) like this in Wiley InterScience
- Find articles in Wiley InterScience written by any of the [authors](#)

Wiley InterScience is a member of CrossRef.



[Request Reprint](#)

Copyright © 1999-2010 [John Wiley & Sons, Inc.](#) All Rights Reserved.