Abstract

To study the efficacy of ethanolic extract of B. monosperma bark in cafeteria, atherogenic diet

fed rats and monosodium glutamate (MSG) obese rats. Anti-obese activity was studied

using various parameters included body weight, daily food intake, locomotor activity,

body temperature, biochemical parameters (serum glucose, cholesterol and triglycerides

levels), internal organs (i.e. heart, kidney, liver and spleen) and uterine fat pad weights

were measured and the results were compared with obese groups. The different doses

(200, 400 and 800 mg/kg) of ethanolic extract of B. monosperma bark was tested and it

showed dose dependently decrease in body weight, daily food intake, glucose, lipids,

internal organs' weight and fat pad weight in cafeteria, atherogenic diet fed rats and

monosodium glutamate obese rats. Thus B. monosperma has showed significant anti-

obese activity.

Key words: Atherogenic diet, obese, *Butea monosperma*, cafeteria diet, monosodium

glutamate.