Abstract

Acne is the most common and inflammatory chronic skin condition, caused by blockage or inflammation of hair follicles and their associated sebaceous glands. Acne can be present in different forms like inflammatory comedonesand noninflammatory (papules, pustules, nodules and cysts). There are several methods to treat the acne like topical and oral treatments included light and leaser treatments. However apart from the local adverse effects of many of these agents, it's important to localise the effect of application site alone. In this way a lot of natural products can helpful in the treatment of acne and one of them is glutathione. Gluthathione is the body's own master antioxidant. In our research pure and natural Glutathione has been used. It was extracted from spinach. Firstly glutathione was isolated from spinach through Trichloro acetic acid. The yield was 163.6 mg/kg then quantitative and qualitative analysis was done on amino acid analyser. After that formulation was done. Basically formulations were prepared or mild and mild to moderate type of acne. Formulations of 1% and 3% glutathione by weight of total composition were prepared for clinical trials. The antioxidant activity of GSH gels were performed using various in vitro assays i.e. DPPH radical scavenging activity, percent inhibition of linoleic acid peroxidation and bleachability of Beta carotene. Isolated Gluthathione showed significant results against oxidative stress and thus effective against acne prone skin, not only it cleared the acne and acne spots but also lighten the skin tone and improved the skin texture.