

SHORT COMMUNICATION

ESTIMATION OF RESVERATROL AND GLABRIDIN IN GEL FORMULATION BY UV SPECTROSCOPY

ABSTRACT

Acne and hyperpigmentation are the most common problems in adolescents globally. Resveratrol and glabridin are proven to be effective against acne and hyperpigmentation. We developed a gel comprising these two actives for acne and hyperpigmentation treatment. The purpose was to establish a reliable UV method of analysis for quantification of resveratrol and glabridin, with high precision and accuracy. UV spectral analysis indicated 306nm and 281nm to be the λ_{max} for resveratrol and glabridin, respectively, in methanol. The linearity studies conducted as per ICH guidelines Q2 R1 resulted in a correlation coefficient (r^2) of 0.99. This method was used to assay the developed gel for resveratrol and glabridin content and demonstrated the suitability of this UV spectroscopic method for simultaneous quantification. It can be applied for other delivery systems with slight modification.