



Ex-Vivo & In-Vitro Evaluation of Anti-Cataract Activity of Coriandrum sativum & Withania somnifera

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Abstract : A cataract is haziness or clouding in crystalline lens of living being. It disturbs lens transparency by changes in lens properties like precipitation of crystalline protein, increase in reactive oxygen species, increase in sorbitol accumulation, etc. There is no pharmacology treatment for cataract. Surgery is only option to get rid from cataract. Coriander is used since ancient time in eyesight weakness and in conjunctivitis. Ashwagandha is used as anti diabetic and as anti oxidant in market. As we know Polyol pathway is main cause of cataract, anti diabetic drug might have better action in cataract. To evaluate this (1) *Ex-vivo* Photographic evaluation of goat eye lens and (2) Biochemical parameters testing of same lens was carried out. The hydroalcoholic extract of both the drugs were prepared of 250µg/ml, 500µg/ml and 1000µg/ml concentration. After treatment with test drugs the total protein content increases, decrease in MDA level, Increased in catalase activity was observed in significant amount. This puts light on cheaper and efficient use of herbal preparation in cataract.

Keywords : Coriander, Ashwagandha, Hydroalcoholic, MDA level, Catalase activity, Protein content.

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