

**Kumar Organic Products Limited**

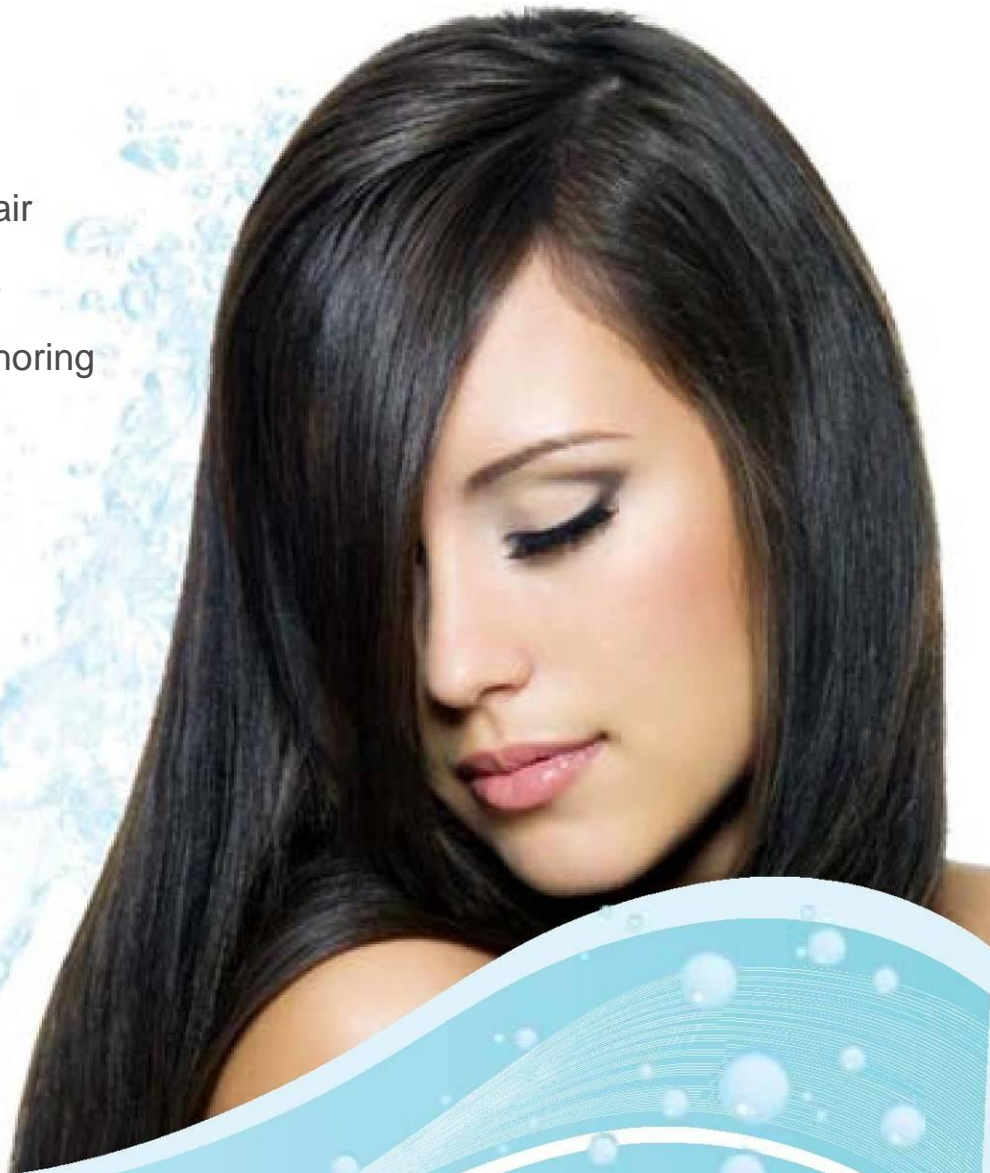
**Ingredients for us**

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## KOPYRROL AQUA POWDER

(Pyrrolidinyl Diaminopyrimidine Oxide  
Oxothiazolidine Carboxylic acid)

- ☑ Rejuvenates Hair Follicle
- ☑ Increases the growth of Hair
- ☑ Protects against Hair Loss
- ☑ Favours a better Hair Anchoring



# New Water Soluble Compositions for Treating Hair Loss and Promoting Hair Growth

Kumar Organic Products Limited, has come out with novel water soluble salts hair growth actives prepared by combinations of hair growth stimulants **Kopyrrol (6-Pyrrolidino-2,4-diaminopyrimidine 3-oxide)** and a multifunctional compound which can prevent hair loss and accelerates the hair growth.

## Product Specification

ANALYTICAL PROFILE	SPECIFICATION
Appearance	White Crystalline Powder
Pyrrolidinyl diamino Pyrimidine Oxide Content (By HPLC)	50-60% w/w
Oxothiazolidinecarboxylic acid	40% -50% w/w
Moisture content	NMT 2.0%
Residue on Ignition	NMT 0.5%

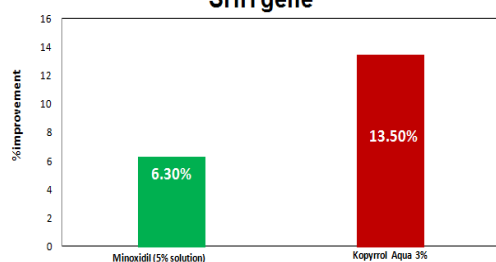
## Applications

- Hair Gel
- Hair Cream
- Hair Shampoo
- Hair Conditioners
- Hair Spray

### Dosage:

Standard dosage range 0.1-1.5%

**%improvement in mRNA expression of SHH gene**



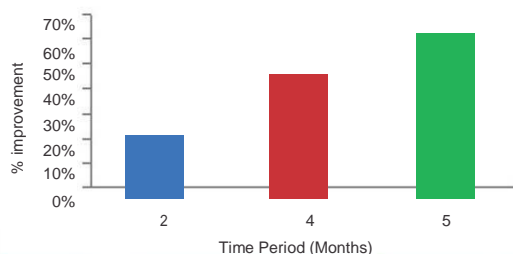
## CLINICAL STUDY

Open label, phase II, clinical study was carried out on 60 subjects (male) to evaluate the safety and efficacy of Kopyrrol Aqua along with 5% solution of Minoxidil (market sample) and was found to be therapeutically more superior to Minoxidil.

Kopyrrol Aqua showed increased mRNA value (13.50%) for SHH gene as compared to Minoxidil (5%), which is related to hair growth.

Additionally, the percentage improvement of hair growth increased from baseline to month 2, month 4 and month 5 as 25, 50, and 66% respectively.

**% improvement of Hair Growth by Kopyrrol Aqua**



## SAFETY EVALUATION

Safety analysis was carried out through the study and there were no significant findings found against Kopyrrol Aqua. No adverse events were reported. All the post study laboratory values were normal.

## FORMULATIONS

The water soluble salts of these actives are for topical use which may be administered in Gel, Cream, Lotion, Shampoo, Conditioner, solutions or sprays and can contain water up to 95 % of the composition.



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