

## Rauwolscine (alpha-Yohimbine) 98%<sup>†</sup>

Alpha-Yohimbine or  $\alpha$ -Yohimbine [also known as Iso-yohimbine, Corynanthidine, Rauwolscine], a stereoisomer of yohimbine, is an alkaloid found in *Rauwolfia vomitoria*.

## Ethnobotany

Rauwolfia spp. has long been used in India, particularly by Ayurvedic practitioners as a remedy for snake bites, insanity, insomnia, anxiety disorders, hypochondria and dysentery. Its use in Europe is reported over 300 years.

## Chemistry

 $\alpha$ -Yohimbine is a more potent monoamine oxidase (MAO) inhibitor as compared to yohimbine. It works as a very potent amphetamine-potentiator and prevents neuro-breakdown by ameliorating serotonin, noradrenaline, and dopamine. It also has similar alpha-2 antagonistic properties similar to yohimbine HCI, but also reduces vasoconstriction.

While yohimbine helps to improve lipolysis by antagonizing  $\alpha 2$ -adrenoceptors, it may also prevent lipolysis from occurring by antagonizing  $\alpha 1$ -adrenoceptors, which is counter-productive, on the other hand  $\alpha$ -yohimbine is as potent at antagonizing  $\alpha 2$ -adrenergic receptors as yohimbine, but, it is 50 times less potent at  $\alpha 1$ -adrenergic receptors, making it much more selective and much less likely to reduce lipolysis by inhibiting  $\alpha 1$ -adrenergic receptor activity when compared to yohimbine.

Overall,  $\alpha$ -yohimbine acts predominantly as an  $\alpha$ -2-adrenergic receptor antagonist. It functions as a 5-HT<sub>1 $\alpha$ </sub> receptor partial agonist, and 5-HT<sub>2 $\alpha$ </sub> and HT<sub>2 $\beta$ </sub> receptor antagonist.

**Manufacturing Source:** Cepham NMR-affirmed all natural 90% Rauwolscine (90%  $\alpha$ -Yohimbine) is extracted from the roots of *Rauwolfia vomitoria*. This product has several advantages:

- [1] Extra-pure grade\*
- [2] Low dosage\*
- [3] Free from all other impurities and related alkaloids which hamper the bioavailability and may cause competition with receptors\*
- [4] Backed by USA Safety Study\*

<sup>\*</sup>These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease. †This informational write-up is for professional education only. Not for consumer distribution.



**Physico-Chemical Properties:** White to off-white fine powder, freely soluble in water, ethanol and DMSO.

Dosage: Not to exceed 3 mg/day\*

**Safety:** No adverse effects were observed at recommended dosage (Glynn, 1955).

Recommended Use: Sports Nutrition\*; Muscle Building\*; Pre-Exercise\*; Energy\*; Stamina\*; Endurance\*

There is no reserpine in Cepham Rauwolscine.

## References

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