

# A Review on: Neutraceutical Chewable Curcumin Gummies and its Application

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**Abstract:** Turmeric, a spice that has long been recognized for its medicinal properties, has received interest from both the medical/scientific world and from culinary enthusiasts, as it is the major source of the polyphenol curcumin. It aids in the management of oxidative and inflammatory conditions, metabolic syndrome, arthritis, anxiety, and hyperlipidemia. It may also help in the management of exercise-induced inflammation and muscle soreness, thus enhancing recovery and performance in active people. In addition, a relatively low dose of the complex can provide health benefits for people that do not have diagnosed health conditions. Ingesting curcumin by itself does not lead to the associated health benefits due to its poor bioavailability, which appears to be primarily due to poor absorption, rapid metabolism, and rapid elimination. Gummies or soft chew supplements rank on 2nd place in the most commonly used form by consumers. Not only do they taste good, but with the nutritional adding they help maintain a healthy immune system and protect your organism. The purpose of this review is to provide a brief overview of Curcumin.[1].

**Keywords:** curcumin, turmeric, antioxidant, anti-inflammatory, polyphenol

## REFERENCES

- [1]. Curcumin: A Review of Its' Effects on Human Health Susan J. Hewlings, ID and Douglas S. Kalman Department of Nutrition, Central Michigan University, Mount Pleasant, MI 48859, USA.
- [2]. Turmeric, Curcumin and Our Life: A Review Jaggi Lal School of Studies in Chemistry, Jiwaji University, Gwalior- 474 011, (M.P.)
- [3]. Deodhar, S.D., Sethi, R. & Srimal, R.C. (1980). Preliminary study on antirheumatic activity of curcumin (diferuloyl methane). Indian J. Med. Res. 71: 632-634.
- [4]. Park, E.J., Jeon C. H., Ko G., Kim J. & Sohn D.H. (2000). Protective effect of curcumin in rat liver injury induced by carbon tetrachloride. J. Pharm. Pharmacol. 52: 437-440.
- [5]. Leela, N.K., Tava, A., Shaf, P.M., John, S.P. & Chempakam, B. (2002). Chemical Composition of essential oils of turmeric (*Curcuma longa* L.). Acta Pharma. 52: 137-141.
- [6]. Park, E.J., Jeon C. H., Ko G., Kim J. & Sohn D.H. (2000). Protective effect of curcumin in rat liver injury induced by carbon tetrachloride. J. Pharm. Pharmacol. 52: 437-440.
- [7]. Shah, B.H., Nawaz, Z., Pertani, S.A., Roomi, A., Mahmood, H., Saeed, S.A., & Gilani, A.H. (1999). Inhibitory effect of curcumin, a food spice from turmeric, on platelet- activating factor and arachidonic acid-mediated platelet aggregation through inhibition of thromboxane formation and Ca<sup>2+</sup> signaling. Biochem. Pharmacol. 58(7): 1167-1172.
- [8]. Lim, G.P., Chu, T., Yang, F., Beech, W., Frautschy, S.A. & Cole, G.M. (2001). The curry spice curcumin reduces oxidative damage and amyloid pathology in an Alzheimer transgenic mouse. J. Neurosci. 21(21): 8370-8377.
- [9]. Deodhar, S.D., Sethi, R. & Srimal, R.C. (1980). Preliminary study on antirheumatic activity of curcumin (diferuloyl methane). Indian J. Med. Res. 71: 632-634.
- [10]. Folkman, J. (2001). Can mosaic tumor vessels facilitate molecular diagnosis of cancer? Proc. Natl. Acad. Sci. USA 98(2): 398-400.
- [11]. Huang, H.C., Jan, T.R. & Yeh, S.F. (1992). Inhibitory effect of curcumin, an anti-inflammatory agent, on vascular smooth muscle cell proliferation. Eur. J. Pharmacol. 221(2-3): 381-384.

- [12]. Hussain, M.S. & Chandrasekhara, N. (1994). Biliary proteins from hepatic bile of rats fed curcumin or capsaicin inhibit cholesterol crystal nucleation in supersaturated model bile. *Ind. J. Biochem. Biophys.* 31(5): 407-412.
- [13]. Abraham, S.K., Sharma, L. & Kesavan, P.C. (1993). Protective effects of chlorogenic acid, curcumin and beta-carotene against gamma-radiation-induced in vivo chromosomal damage. *Mutat. Res.* 303(3): 109-112.
- [14]. Thaloor, D., Miller, K.J., Gephart, J., Mitchell, P.O. & Pavlath, G.K. (1999). Systemic administration of the NF-kappa  $\beta$  inhibitor curcumin stimulates muscle regeneration after traumatic injury. *Am. J. Physiol.* 277: C320-329