

## Citrate A Possible Precursor Of Astaxanthin In Phaffia

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Citrate, a possible precursor of astaxanthin in *Phaffia rhodozyma*: influence of varying levels of ammonium, phosphate and citrate in a chemically defined medium. Flores-Cotera LB(1), Martín R, Sánchez S.

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The influence of ammonium, phosphate and citrate on astaxanthin production by the yeast *Phaffia rhodozyma* was investigated. The astaxanthin content in cells and the final astaxanthin concentration increased upon reduction of ammonium from 61 mM to

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Citrate, a possible precursor of astaxanthin in *Phaffia rhodozyma*: influence of varying levels of ammonium, phosphate and citrate in a chemically defined medium.

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Abstract. The influence of ammonium, phosphate and citrate on astaxanthin production by the yeast *Phaffia rhodozyma* was investigated. The astaxanthin content in cells and the final astaxanthin concentration increased upon reduction of ammonium from 61 mM to 12.9 mM (from 140 µg/g to 230 µg/g and 1.2 µg/ml to 2.3 µg/ml, respectively). Similarly, both the astaxanthin content and astaxanthin ...

~~Citrate, a possible precursor of astaxanthin in Phaffia ...~~

Citrate is used for feedback inhibition, as it inhibits phosphofructokinase, an enzyme involved in glycolysis that catalyses formation of fructose 1,6-bisphosphate, a precursor of pyruvate. This prevents a constant high rate of flux when there is an accumulation of citrate and a decrease in substrate for the enzyme. Regulation by calcium. Calcium is also used as a regulator in the citric acid cycle.

~~Citric acid cycle - Wikipedia~~

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Citric acid is a weak organic acid that has the molecular formula C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>. It occurs naturally in citrus fruits. In biochemistry, it is an intermediate in the citric acid cycle, which occurs in the metabolism of all aerobic organisms. More than two million tons of citric acid are manufactured every year. It is used widely as an acidifier, as a flavoring and a chelating agent. A citrate is a derivative of citric acid; that is, the salts, esters, and the polyatomic anion found in solution. An exam

~~Citric acid - Wikipedia~~

On the basis of these in vitro experiments and according to our previous reports on biomimetic citrated-covered apatites, we can postulate that citrate may both stabilize the amorphous precursor and provide it with negatively-charged surface, facilitating the electrostatic interaction with specific positively-charged groups of collagen fibrils. As a matter of fact, a similar control through the same mechanism has been proposed for NCPs.

~~The synergic role of collagen and citrate in stabilizing ...~~

These experiments from the 1950s align with the conclusion that fatty acids, when converted to acetyl-CoA and condensed with OAA to form citrate, are indeed a gluconeogenic precursor. That is, if acetate derived from fatty acid β-oxidation serves as a carbon source for glucose production, then, by definition, it is a gluconeogenic precursor.

~~Are Fatty Acids Gluconeogenic Precursors? | The Journal of ...~~

In a third possible mechanism in initially pyruvate-only solutions, a portion of citrate could also be formed exclusively from the produced oxaloacetate: this reaction is known and likely involves nucleophilic attack of one molecule of oxaloacetate on the keto carbon of another followed by loss of OC-COOH (24, 25) (we also find citrate in oxaloacetate-only solutions).

~~Detection and formation scenario of citric acid, pyruvic ...~~

Citrate and isocitrate conversions in plant cells can be closely related to the fatty acid metabolism, when precursors of gluconeogenesis is produced from storage triacylglycerols through the fatty acid β-oxidation and the glyoxylate cycle.

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## ~~Citrate and isocitrate in plant metabolism—ScienceDirect~~

In the mature chromoplast, the permeability to mevalonate and acetate again decreased to about 20% of the maximum value and reached zero for citrate. The results give evidence that during the transformation of chloroplasts to chromoplasts, precursors for carotenoid biosynthesis are translocated from extraplastidic sites into the plastids, there being possibly incorporated into carotenoids

## ~~Envelope Permeability to Possible Precursors of Carotenoid ...~~

Nickel substituted lithium zinc ferrites with compositional formula  $\text{Li}_{0.4-0.5x} \text{Zn}_{0.2} \text{Ni}_x \text{Fe}_{2.4-0.5x} \text{O}_4$  where  $x=0.02$  ?  $x$  ?  $0.1$  in steps of  $0.02$  were prepared by the citrate precursor method. The precursor used was AR grade lithium nitrate, zinc nitrate, iron nitrate, nickel nitrate and citric acid.

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