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# The role of carbon and nitrogen sources in the production of bioactive compounds in *Monascus* fermentation products: A mini review

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**Abstract**

Angkak is one of the *Monascus* fermented products with rice as a substrate. In addition, Chinese yam, potatoes, soybean, ginseng and onions can be used as a substrate for fermentation products by *Monascus* sp. It was known that the fermented product by *Monascus* sp. produces several bioactive compounds that have antihyperlipidemic activity. These bioactive compounds are monacolin-K and

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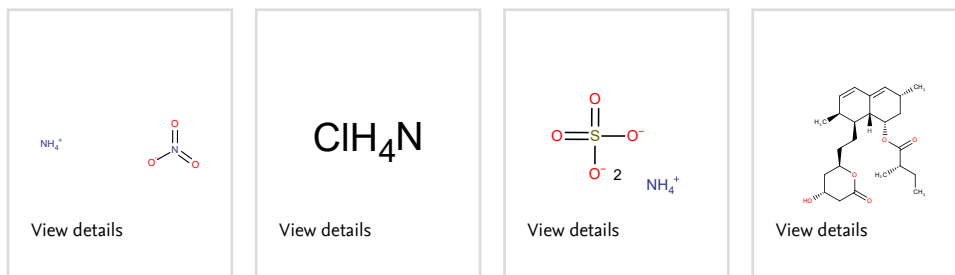
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pigment compounds (monascin and ankaflavin). Each of these compounds has different cholesterol inhibitory activity. The production of these bioactive compounds is strongly influenced by the nutritional composition of the fermentation media. The addition of the right carbon and nitrogen sources can accelerate the production of bioactive compounds by *Monascus* sp. © Published under licence by IOP Publishing Ltd.

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