



GB 1886.364-2022

National Food Safety Standard Food Additive Cowberry Red

食品安全国家标准 食品添加剂 越橘红

National Health Commission of the People's
Republic of China
State Administration for Market Regulation

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食品安全国家标准

食品添加剂 越橘红

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National Health Commission of the People's Republic of China
State Administration for Market Regulation

National Food Safety Standard

Food Additive Cowberry Red

1 Scope

This standard applies to the food additive cowberry red, which is produced from the fruit of cowberry (known as *Vaccinium vitis-idaea* L.; family Ericaceae, genus *Vaccinium*) by extraction with water and/or food-grade ethanol, followed by purification/refining, concentration, and drying.

2 Chemical Name, Molecular Formula, Structural Formula and Relative Molecular Mass

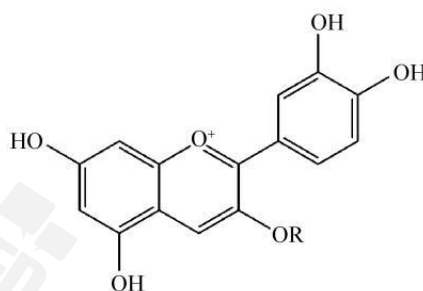
2.1 Chemical name and molecular formula (principal constituents)

Cyanidin glucoside: $C_{21}H_{21}O_{11}$

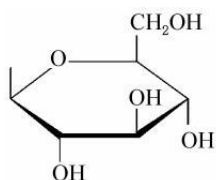
Cyanidin arabinoside: $C_{20}H_{19}O_{10}$

Cyanidin galactoside: $C_{21}H_{21}O_{11}$

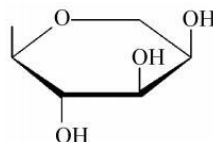
2.2 Structural formula (principal constituents)



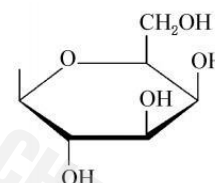
R:



Cyanidin glucoside



Cyanidin arabinoside



Cyanidin galactoside

2.3 Relative molecular mass (according to the 2018 international relative atomic mass)

Cyanidin glucoside: 449.36