



GB 1886.104-2024

National Food Safety Standard

Food Additive Quinoline Yellow

食品安全国家标准 食品添加剂 喹啉黄

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

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National Standard of the People's Republic of China

GB 1886.104-2024
In Replacement of GB 1886.104-2015

National Food Safety Standard Food Additive Quinoline Yellow

食品安全国家标准

食品添加剂 喹啉黄

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Foreword

This standard replaces GB 1886.104-2015 "National Food Safety Standard Food Additive Quinoline Yellow".

Compared with GB 1886.104-2015, the main changes of this standard are as follows:

- The scope of application of the standard has been modified;
- The physical and chemical indicators of total content of quinoline yellow pigment were added;
- Physical and chemical indicators and test methods for ether extraction were added;
- Product categories were deleted;
- Identification test was added;
- The chromatographic conditions for the test methods of 2-(2-quinolyl)-indanyl-1,3-dione trisulfonic acid trisodium salt, 2-(2-quinolyl)-indanyl-1,3-dione disulfonic acid disodium salt, and 2-(2-quinolyl)-indanyl-1,3-dione monosulfonic acid sodium salt were modified, and the spectrophotometric method was deleted;
- The types of non-pigmented organic matter, chromatographic conditions of the test method and the quantitative method have been modified;
- The test methods for total arsenic and lead have been modified.

National Food Safety Standard

Food Additive Quinoline Yellow

1 Scope

This standard applies to the food additive quinoline yellow produced by sulfonation of 2-(2-quinolyl)-1,3-indanedione as raw material.

2 Chemical name, molecular formula, structural formula and relative molecular mass of the main components

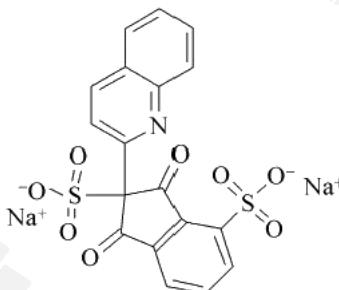
2.1 Chemical name

2-(2-Quinoliny) indanyl-1,3-dione disulfonic acid disodium salt

2.2 Molecular formula

$C_{18}H_9NO_8S_2Na_2$

2.3 Structural formula



2.4 Relative molecular mass

477.38 (according to the 2021 international relative atomic mass)

3 Technical requirements

3.1 Sensory requirements

Sensory requirements shall comply with the requirements of Table 1.

Table 1 Sensory requirements

GB 1886.104-2024

Item	Requirement	Testing method
Color	Yellow	Take an appropriate amount of sample and place it in a clean, dry white porcelain plate, and observe its color and state under natural light.
State	Powder or granules	

3.2 Physical and chemical indicators

The physical and chemical indicators should comply with the requirements of Table 2.

Table 2 Physical and chemical indicators

Item	Index	Testing method
Total content of quinoline yellow pigment, $\omega/\%$ $\geq$	70.0	Annex A.4
2-(2-quinolinyl)indanyl-1,3-dione disulfonic acid disodium salt in quinoline yellow pigment/ $\omega/\%$ $\geq$	80.0	A.5
2-(2-quinolinyl)indanyl-1,3-dione monosulfonic acid sodium salt in quinoline yellow pigment/ $\omega/\%$ $\leq$	15.0	A.5
2-(2-quinolinyl)indanyl-1,3-dione trisulfonic acid trisodium salt in quinoline yellow pigment/ $\omega/\%$ $\leq$	7.0	A.5
Drying loss, total amount of chloride (as NaCl) and sulfate (as Na ₂ SO ₄), $\omega/\%$ $\leq$	30.0	A.6
Water insoluble matter, $\omega/\%$ $\leq$	0.20	A.7
Non-pigmented organic matter (2-methylquinoline, phthalic acid, 2,6-dimethylquinoline), $\omega/\%$ $\leq$	0.50	A.8
Unsulphonated aromatic primary amine (as aniline), $\omega/\%$ $\leq$	0.01	A.9
Ether extract/ $\omega/\%$ $\leq$	0.20	A.10
Secondary dye /(mg/kg) $\leq$	4.0	A.11
Total arsenic (as As)/(mg/kg) $\leq$	1.0	GB 5009.11 or GB 5009.76
Lead (Pb)/(mg/kg) $\leq$	2.0	GB 5009.12 or GB 5009.75
Zinc (Zn)/(mg/kg) $\leq$	50.0	GB 5009.14



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