

D&C Yellow No. 10

(a) Identity.

(1) The color additive D&C Yellow No. 10 is a mixture of the sodium salts of the mono- and disulfonic acids of 2-(2-quinoliny)-1 H -indene-1,3 (2 H)-dione consisting principally of the sodium salts of 2-(2,3-dihydro-1,3-dioxo-1 H -indene-2-yl)-6-quinolinesulfonic acid and 2-(2,3-dihydro-1,3-dioxo-1 H -indene-2-yl)-8-quinolinesulfonic acid with lesser amounts of the disodium salts of the disulfonic acids of 2-(2-quinoliny)-1 H -indene-1,3(2 H)-dione (CAS Reg. No. 8004-92-0).

Colour Index No: 47005

CAS No: 8004-92-0

Chemical Formula: C₁₈H₉NO₈S₂Na

(b) Specifications.

The color additive D&C Yellow No. 10 shall conform to the following specifications and shall be free from impurities other than those named to the extent that such other impurities may be avoided by current good manufacturing practice:

Purity	: 85 % Min.
Sum of volatile matter at 135 °C (275 °F) and chlorides and sulfates (calculated as sodium salts),	: 15 % Max
Matter insoluble in both water and chloroform	: 0.2 % Max
Total sulfonated quinaldines, sodium salts	: 0.2 % Max
Total sulfonated phthalic acids, sodium salts	: 0.2 % Max
2-(2-Quinoliny)-1 H -indene-1,3 (2 H)-dione,	: 4 ppm Max
Sum of sodium salts of the monosulfonates of 2-(2-quinoliny)-1 H -indene-1,3 (2 H)-dione,	: > 75 %
Sum of sodium salts of the disulfonates of 2-(2-quinoliny)-1 H -indene-1,3 (2 H)-dione	: < 15 %
2-(2,3-Dihydro-1,3-dioxo-1 H -indene-2-yl)-6, 8-quinolinedisulfonic acid, disodium salt	: < 03 %
Diethyl ether soluble matter other than that specified (using added 2-(2-quinoliny)-1 H -indene-1,3 (2 H)-dione for calibration)	: 2 ppm,

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Metals:

Lead (as Pb)	: 20 ppm Max
Arsenic (as As)	: 3 ppm Max
Mercury (as Hg)	: 1 ppm Max

Use Restrictions : Use of this color is limited to drugs and cosmetics. It is also subject to additional restrictions.

Shelf Life : Indefinite when stored as recommended (6 years)

Recommended Storage Conditions : Store at room temperature in a dry location. Keep container and inner liner tightly closed.