§ 74.1255   D&C Orange No. 5.

(a) Identity. (1) The color additive D&C Orange No. 5 is a mixture consisting principally of 4′,5′-dibromofluorescein (CAS Reg. No. 25709–83–5) and 2′,4′,5′,7′-tetrabromofluorescein (CAS Reg. No. 15086–94–9). D&C Orange No. 5 is manufactured by brominating fluorescein with elemental bromine. The fluorescein is manufactured by the acid condensation of resorcinol and phthalic acid or its anhydride. The fluorescein is isolated and partially purified prior to bromination.

(2) Color additive mixtures for drug use made with D&C Orange No. 5 may contain only those diluents that are suitable and that are listed in part 73 of this chapter for use in color additive mixtures for coloring drugs.

(b) Specifications. D&C Orange No. 5 shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice.

4′,5′-dibromofluorescein, not less than 50 percent and not more than 65 percent.

Total color, not less than 87 percent.

Mercury (as Hg), not more than 1 part per million.

Arsenic (as As), not more than 3 parts per million.

Lead (as Pb), not more than 20 parts per million.

Fluorescein, not more than 1 percent.

Phthalic acid, not more than 1 percent.

2-(3,5-Dibromo-2,4-dihydroxybenzoyl) benzoic acid, not more than 0.5 percent.

Brominated resorcinol, not more than 0.4 percent.

Sum of volatile matter (at 135 °C) and halides and sulfates (calculated as sodium salts), not more than 10 percent.

Insoluble matter (alkaline solution), not more than 0.3 percent.

Lead (as Pb), not more than 20 parts per million.

Arsenic (as As), not more than 3 parts per million.

Mercury (as Hg), not more than 1 part per million.

Total color, not less than 90 percent.

(c) Uses and restrictions. D&C Orange No. 5 may be safely used for coloring externally applied drugs in amounts consistent with current good manufacturing practice.

(d) Labeling. The label of the color additive and any mixtures prepared therefrom intended solely or in part for coloring purposes shall conform to the requirements of §70.25 of this chapter.

(e) Certification. All batches of D&C Orange No. 5 shall be certified in accordance with regulations in part 80 of this chapter.


§ 74.1255 D&C Orange No. 5.

(a) Identity. (1) The color additive D&C Orange No. 5 is a mixture consisting principally the sodium salt of 4′,5′-dibromofluorescein (CAS Reg. No. 596–05–2) and 2′,4′,5′-tribromofluorescein (CAS Reg. No. 25709–83–5) and 2′,4′,5′,7′-tetrabromofluorescein (CAS Reg. No. 15086–94–9). D&C Orange No. 5 is manufactured by brominating fluorescein with elemental bromine. The fluorescein is isolated and partially purified prior to bromination.

(2) Color additive mixtures for drug use made with D&C Orange No. 5 may contain only those diluents that are suitable and that are listed in part 73 of this chapter for use in color additive mixtures for coloring drugs.

(b) Specifications. D&C Orange No. 5 shall conform to the following specifications and shall be free from impurities other than those named to the extent that such impurities may be avoided by good manufacturing practice.

4′,5′-dibromofluorescein, not less than 30 percent and not more than 40 percent.

2′,4′,5′,7′-tetrabromofluorescein, not more than 10 percent.

Sum of 2′,4′-dibromofluorescein and 2′,5′-dibromofluorescein, not more than 2 percent.

4′-Bromofluorescein, not more than 2 percent.

Fluorescein, not more than 1 percent.

Phthalic acid, not more than 1 percent.

2-(3,5-Dibromo-2,4-dihydroxybenzoyl) benzoic acid, not more than 0.5 percent.

Brominated resorcinol, not more than 0.4 percent.

Sum of volatile matter (at 135 °C) and halides and sulfates (calculated as sodium salts), not more than 10 percent.

Insoluble matter (alkaline solution), not more than 0.3 percent.

Lead (as Pb), not more than 20 parts per million.

Arsenic (as As), not more than 3 parts per million.

Mercury (as Hg), not more than 1 part per million.

Total color, not less than 87 percent.

(c) Uses and restrictions. D&C Orange No. 5 may be safely used for coloring externally applied drugs in amounts consistent with current good manufacturing practice.

(d) Labeling. The label of the color additive and any mixtures prepared therefrom intended solely or in part for coloring purposes shall conform to the requirements of §70.25 of this chapter.

(e) Certification. All batches of D&C Orange No. 5 shall be certified in accordance with regulations in part 80 of this chapter.


§ 74.1260 D&C Orange No. 10.

(a) Identity. (1) The color additive D&C Orange No. 10 is a mixture consisting principally of 4′,5′-diiodofluorescein, 2′,4′,5′-triliodofluorescein, and 2′,4′,5′,7′-tetraiodofluorescein.

(2) Color additive mixtures for drug use made with D&C Orange No. 10 may contain only those diluents listed in this subpart as safe and suitable for use in color additive mixtures for coloring externally applied drugs.