TECHNICAL DATA

PRODUCT NAME: FD&C YELLOW NO. 5 POWDER
PRODUCT CODE: 21DA4400

Color Index Name: Food Yellow 4 or Acid Yellow 23
Color Index No.: 19140

Common Name: Tartrazine

CAS No.: 1934-21-0
Molecular Weight: 534.4

Structure:

![Structure Image]

Description: Yellow-orange powder

Chemical Name: Trisodium salt of 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[4-sulfophenylazo]-1H-pyrazole-3-carboxylic acid

Pure Color Assay:
- FDA Requirements...... 87% minimum
- HD Specification......... 89% minimum
- Meets FDA requirements as set forth in 21CFR74

Heavy Metals:
- Lead 10 ppm maximum
- Arsenic 3 ppm maximum
- Mercury 1 ppm maximum

Ingredient Declaration:
- FD&C Yellow 5 89-94%
- Water 3-5%
- Sodium Chloride 3-6%

Allergens: None present

Stability to:
- Light Good
- Oxidation Fair
- Heat Good

Variations in pH:
- pH 3 Stable
- pH 8 Stable

12/06/16 PAR:rmg (CONTINUED ON NEXT PAGE)

The information provided on this and any following pages regarding our product(s) has been developed as a guide for your consideration and verification and does not constitute a legal representation or warranty. Due to differences in product formulation and operational conditions, we cannot be responsible for results in the user’s plant or product.
PRODUCT NAME:     FD&C YELLOW NO. 5 POWDER
PRODUCT CODE:     21DA4400

Solubility at 25°C:
- Distilled Water  17 oz. per gallon
- Glycerine        28 oz. per gallon
- Propylene Glycol 12 oz. per gallon
- Ethanol (95%)    Tint

Microbiological:
- APC             < 1000 col./gram
- Yeast & Mold    < 100 col./gram combined
- Gram Negative   Negative

Packaging:
Standard packaging size is 44 lbs. (20 kg) and 11 lbs. (5 kg) cardboard boxes with polyethylene liners.

Shelf Life:
Indefinite when stored as recommended (5 years)

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

Remarks
FD&C Yellow No. 5 gives a greenish yellow color in solution. It has good resistance to acids, alkalis, heat and light. Resistance to oxidizing and reducing agents is fair.

The major uses of FD&C Yellow No. 5 are in beverages, bakery goods, pet foods, dessert powders, candy confections and cereals.