

FD&C colorants are commonly used in foods and cosmetics. Propylparaben is a preservative found in the mixture of food colorings used for this analysis. Green food coloring is comprised of yellow # 5 and blue # 1. A combination of ion-pairing and gradient HPLC is used because of the wide chemical differences of compounds. Note the molecular formulas.

## **Operating Conditions:**

HPLC System: Agilent 1100 with quaternary pump

Column: ZORBAX Eclipse XDB-C18 Rapid-Resolution (3.5 µm), 4.6 x 50 mm

Agilent Part No. 935967-902

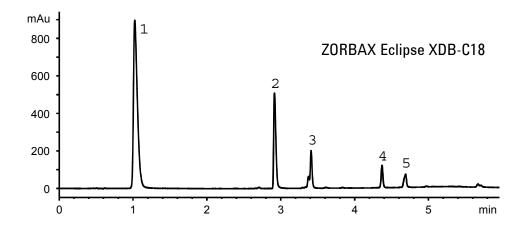
Mobile Phase: A: 0.1% TFA, pH to 4.4 with TEA, B: MeOH

Gradient: 17 to 100% B / 4 min

Detection: UV 254 nm Flow: 1 mL/ min. Temperature: ambient

## **Highlights**

- ZORBAX Eclipse-XDB is designed for extended column life at intermediate pH.
- Reducing column length and particle size simultaneously can:
  - Reduce analysis time
  - Maintain resolution
  - Reduce solvent use





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