



**NATIONWIDE CHILDREN'S**  
*When your child needs a hospital, everything matters.™*

**Pharmacy**

| Drug Name               | Route       | Dosage Form     | Concentration  |
|-------------------------|-------------|-----------------|----------------|
| <b>Caffeine Citrate</b> | <b>Oral</b> | <b>Solution</b> | <b>20mg/mL</b> |

|                           |                            |
|---------------------------|----------------------------|
| <b>Formula Qty: 100mL</b> | <b>Shelf Life: 90 days</b> |
|---------------------------|----------------------------|

**Equipment needed:**  
 Balance, spatula, graduated cylinder, stirring rod, amber bottle

**Auxiliary Labels/Storage: Do Not Refrigerate; Oral Use Only**  
 Crystallizes under refrigeration.

**Directions:**

1. Weigh out amount of caffeine citrate needed plus an additional 1 gram.
2. Triturate in mortar to a fine powder.
3. Re-weigh out caffeine citrate; return extra powder to stock bottle.
4. Transfer powder to graduate and dissolve in purified warm water. Stir until clear.
5. Add cherry syrup to caffeine solution, mixing well.
6. QS with simple syrup to final volume. Stir well.

**Note:** Do not substitute Caffeine base tablets for caffeine citrate powder!  
**Final Product Description:** Thick, clear, colorless solution. Smells like butterscotch.  
*This description is for exact products and manufacturers specified below and may vary with substitutions*

| Ingredients                             | QS | Quantity | Units |
|---|----|----------|-------|
| Caffeine Citrate Powder <i>Spectrum</i> |    | 2        | Gram  |
| Cherry Syrup                            |    | 30       | mL    |
| Purified Water                          |    | 50       | mL    |
| Simple Syrup NF                         | X  | 100      | mL    |
|   |    |          |       |

**Citations/References**

1. Eisenberg MG, Kang N. Stability of citrated solutions for injectable and enteral use. Am J Hosp Pharm. 1984; 41(Nov):2405-2406
2. Pesko LJ. Idiopathic Apnea. American Druggist. 1991; (April): 84-87

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