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**SUGGESTED FORMULA**

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**Methylcobalamin 5000 mcg/mL (500 mcg/0.1mL) Nasal Spray**

Version number: 1.0

Volume: 100 mL

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Sodium Phosphate, Monobasic, Monohydrate USP (SO130)	0.65gm
Sodium Phosphate, Dibasic Dried, USP (SO138)	0.27gm
Sodium Chloride, USP (SO155)	0.45gm
Benzalkonium Chloride Solution, 50 %, NF (B1068)	0.1 mL
Methylcobalamin, JP (M1804)	0.5 gm
Purified Water, USP (W1014)	QS 100 mL

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**SUGGESTED COMPOUNDING PROCEDURES**

1. Calculate the required quantity of each ingredient for the total amount to be prepared.
2. Accurately weigh and/or measure each ingredient.
3. Dissolve the powders in approximately 50mL of purified water
4. Add benzalkonium chloride to solution and stir to mix
5. Bring solution to final volume
6. Record pH of Solution
7. Fill nasal delivery container
8. Package and label.\*
9. Quality Assessments:
  - a. Weight to Volume calculation
  - b. Proper packaging
  - c. pH
  - d. Color

\*Nasal spray devices calibrated to deliver 0.1 mL per actuation will deliver 500 mcg per spray.

Store in air tight containers

Store Refrigerated

No claims are made as to the safety or efficacy of this preparation. This formulation is provided solely at the unsolicited request of the pharmacist.

Beyond-Use Dates of preparations are conservative estimates by the formulator using reference books, peer-reviewed literature, and intended duration of therapy, formulation from commercially available products, organoleptic observations and current USP guidelines. Compounders may have stability studies performed by a reputable laboratory if they wish to extend the Beyond-Use Date. It is recommended that you follow USP <795> recommendations for potency testing.

**Beyond-Use Date is estimated to be 14 Days Refrigerated per USP Chapter <795> standards.**

**Precautions:**

General precautions should be taken to prevent cross-contamination and exposure of ingredients to the compounder and contamination of the preparation by the compounder. Wear appropriate protective equipment. Use safety enclosures (hoods) when weighing and mixing.

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