

TECHNICAL SHEET



HUMCO Compounding
Telephone: 1-800-662-3435 ext. 402
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VERSA FREE™

1. General Information

Versa Free™ is a dye free, flavor free, paraben free, sugar free, gluten free and saccharin free syrup vehicle. Being free of the most common allergens and irritants, Versa Free™ results in a very low number of patient allergic reactions. Versa Free™ has virtually no aftertaste.

2. Characteristics

Versa Free™ Physical Properties	
pH	4.5 – 5.0
Physical Form	Colorless, unflavored sugar-free syrup
Specific Gravity	1.053 – 1.075 g/mL
Viscosity	500 - 1600 cps
API Compatibility	Hydrophilic actives, acid-stable actives, and low levels of hydrophobic actives

3. Composition

Purified water, glycerin, sorbitol, xanthan gum, neotame, citric acid, sodium citrate, potassium sorbate, sodium benzoate.

4. Features

- Flavor-free clear liquid syrup
- Natural ingredients & natural preservatives
- Ideal for diabetic & allergy-sensitive patients
- Soy & gluten-free

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5. Examples of Compatible Active Pharmaceutical Ingredients

Acetazolamide	1 – 5 %
Allopurinol	1 – 5 %
Amiodarone	0.2 – 1 %
Atenolol	0.1 – 0.5 %
Baclofen	0.2 – 1 %
Captopril	0.02 – 0.1 %
Carvedilol	0.02 – 0.1 %
Chloroquine	1 – 5 %
Ciprofloxacin	2 – 10 %
Clonazepam	0.002 – 0.01 %
Enalapril	0.002 – 0.01 %
Glycopyrrolate	0.002 – 0.01 %
Hydrochlorothiazide	0.2 – 1 %
Indomethacin	0.2 – 1 %
Isoniazid	0.2 – 1 %
Labetalol	1 – 5 %
Lorazepam	0.01 – 0.05 %
Metoprolol	0.2 – 1 %
Midazolam	0.1 – 0.5 %
Nifedipine	0.02 – 0.1 %
Nitrofurantoin	0.2 – 1 %
Pentoxifylline	1 – 5 %
Phenobarbitone	0.2 – 1 %
Phytomenadione	0.02 – 0.1 %
Propranolol	0.02 – 0.1 %
Pyrazinamide	2 – 10 %
Sildenafil	0.2 – 1 %
Spironolactone	0.2 – 1 %
Topiramate	0.2 – 1 %
Trimethoprim	0.2 – 1 %
Ursodeoxycholic acid	1 – 5 %
Verapamil	1 – 5 %

6. Applications

- Diabetic & allergy-sensitive patients

7. General Modus Operandi

- Weigh and measure the API's.
- Pulverize the active ingredients in a mortar and disperse the active with Versa Free to form a paste.
- Add Versa Free by means of geometrical dilutions.

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8. Incompatibilities

- Incompatible with active pharmaceutical ingredients sensitive to acidic environment, such as Lansoprazole, Omeprazole and Pantoprazole.

9. Proper Use and Storage

Store in a Cool Dry Place; Protect from freezing; Fasten cap securely to prevent cap lock

10. Publications and Studies

Versa Free™ Product Information, *Humco Product Catalog* (2015).