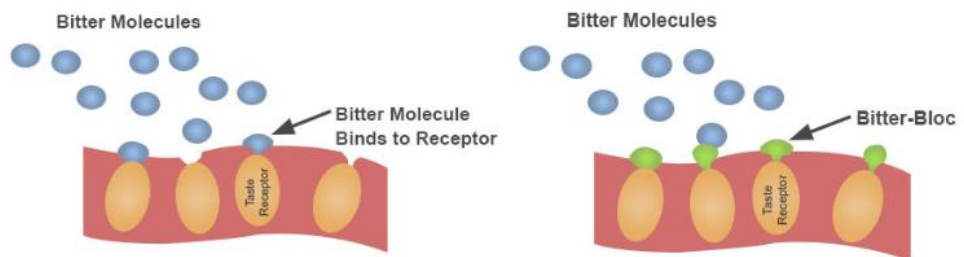


## Bitter-Bloc™ WS/OS Anhydrous Liquid Concentrate

### Naturally Advanced Bitter Blocking Technology

Bitter-Bloc can be formulated to work in hundreds of applications to effectively solve the palatability problems found with many APIs and excipients. Other products on the market simply mask flavor defects, Bitter-Bloc™ blocks flavor defects from reaching taste buds to give your compounded prescriptions a cleaner taste profile to help improve patient compliance and satisfaction. Bitter-Bloc™ is an organic, water-soluble protein that a validated 3<sup>rd</sup> party study shows that it effectively modulates 16+ of the 25 bitter taste receptors on the tongue, therefore maximizing the reduction in bitterness perception. Bitter-Bloc™ also works to eliminate salty, metallic, astringent, and general off-notes in a variety of liquid, powder, or tablet based oral formulations.

### Bitter Blocking Mechanism



Bitter-Bloc™ is the next generation protein technology that blocks flavor defects **Naturally**. Introducing the solution to bitter and off-tasting oral preparations. Discover the endless possibilities to correct flavor defects in your compounded oral preparations. Typically, Bitter-Bloc is effective in most aqueous liquid formulas around the 100-500 ppm, however the most effective usage often requires incremental use level adjustment dependent on the bitterness of the ingredient(s).

#### HIGHLIGHTS

- |                              |                             |
|------------------------------|-----------------------------|
| ✓ Pediatric Medications      | ✓ Anhydrous                 |
| ✓ Geriatric Medications      | ✓ NON-GMO, Kosher           |
| ✓ Veterinary Medications     | ✓ Low pH Stable             |
| ✓ Vitamin Supplements        | ✓ Heat Stable               |
| ✓ Reduced masking sweeteners | ✓ Preservative and Dye Free |
| ✓ Bitter Pharmaceuticals     | ✓ Gras Status               |

**“Bitter-Bloc™ can be formulated to work in hundreds of applications to effectively solve the bitter problems found in many pharmaceuticals, vitamins, and excipients”**

#### GENERAL USE GUIDELINES

##### Bitter-Bloc™ WS/OS Anhydrous Liquid Concentrate

Concentration Level: 37500 ppm/ml  
Suggested Use Conc: 100 ppm – 600 ppm\*\*  
Mean Drop Vol: 40 µl (25 drops = 1ml)

In a 30 ml preparation, 0.08ml (2 drops) = 100 ppm; 0.4ml = 500ppm

In a 150 ml preparation, 0.4ml (10 drops) = 100 ppm; 2ml = 500ppm

\*\*For extremely bitter compounds, suggested Bitter-Bloc use concentration is 500+ ppm level.

## **Bitter-Bloc™ WS/OS Anhydrous Liquid Concentrate**

### ***Naturally Advanced Bitter Blocking Technology***

#### **Technical Data Sheet**

<b>CATEGORY</b>	Bitter-Bloc WS/OS Liquid Concentrate is an oral flavor modifier, bitterness blocking technology, flavor profile enhancer that can be used to compound many oral medications. Common uses in oral pediatric, geriatric, HRT, pain, vitamin supplements, and veterinary medications. Aqueous based suspension miscible. Non-aqueous (oil) soluble.
<b>INGREDIENTS</b>	A non-aqueous (oil) soluble and (aqueous) miscible suspension; Consisting primarily of glyceryls and glycerides, Bitter-Bloc™ (Natural Flavor Enhancer), other inert GRAS ingredients. Bitter-Bloc is a proprietary organic compound composed of naturally derived vegetable proteins, amino acids, and nucleic acids. Other inert GRAS ingredients origin is predominantly fruit kernel oil.
<b>ALLERGY</b>	Per the 2004 Food Allergen Labeling and Consumer Protection Act, no allergen declarations are required for this product as relating to corn, milk, egg, tree nuts, fish, crustacean shellfish, wheat, peanuts, gluten, and soybeans.
<b>TECHNICAL DATA</b>	WS/OS Liquid Concentrate Description: opaque tan homogeneous liquid. Shelf Life: 2 years from date of manufacture when stored in its original, unopened container in a cool dry place.
<b>SAFETY DATA</b>	Bitter-Bloc is a non-active flavor enhancer derived from food grade materials and are Generally Recognized as Safe (GRAS). Bitter-Bloc is a certified USDA organic bitter blocking technology that has achieved FEMA GRAS substance status (FEMA GRAS 4878).
<b>HANDLING AND STORAGE</b>	Comment: Shake liquid concentrates well prior to use. Storage Conditions: Product can be stored at ambient conditions for temperature 20-25°C, pressure, and humidity. Product should be kept in a tightly sealed container, under cool and dry conditions.
<b>COMMENTS</b>	Contact SRx Representative for use guidance. MSDS available upon request. Aqueous based suspension miscible. Non-aqueous (oil) soluble. When introduced in an aqueous medium, the Bitter-Bloc component is 99.9% water soluble.