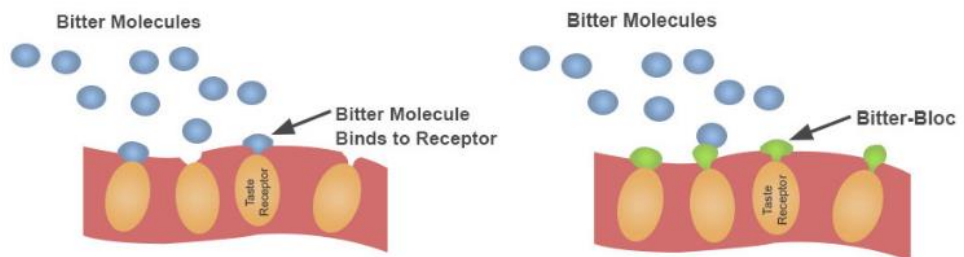


Bitter-Bloc™ WS Anhydrous Liquid Concentrate

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 3rd 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 |
| ✓ Veterinary Medications | ✓ Low pH Stable |
| ✓ Vitamin Supplements | ✓ Heat Stable |
| ✓ Reduced masking sweeteners | ✓ Preservative and Dye Free |
| ✓ Bitter Pharmaceuticals | ✓ Gras Status |
| | ✓ Plant-Based Ingredients |

“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 Anhydrous Liquid Concentrate

Concentration Level:	60,000 ppm/ml
Suggested Start Use Conc:	600 ppm**
Mean Drop Vol:	40 µl (25 drops = 1ml)

In a 30 ml preparation, 0.08ml (2 drops) = 160 ppm; 0.4ml = 800ppm
 In a 150 ml preparation, 0.4ml (10 drops) = 160 ppm; 2.0ml = 800ppm
 **For extremely bitter compounds, suggested Bitter-Bloc use concentration is 600+ ppm level. See COMMENTS Section below.

Bitter-Bloc™ WS Anhydrous Liquid Concentrate

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Technical Data Sheet

CATEGORY	Bitter-Bloc™ WS Liquid Concentrate is an all-natural, plant-based, flavor profile enhancer/ bitterness blocking technology that can be used to compound numerous oral medications. Common uses in oral pediatric, geriatric, HRT, pain, vitamin supplements, and veterinary medications. Anhydrous. Water soluble. Oil insoluble.
INGREDIENTS	An aqueous (water) soluble GRAS liquid; Consisting predominantly of vegetable glycerin infused with Bitter-Bloc™ (Natural Flavor Enhancing Protein) through a unique process developed and manufactured only by SpecializedRx. Bitter-Bloc™ is a proprietary organic compound composed of naturally derived vegetable proteins, amino acids, and nucleic acids.
ALLERGY	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.
TECHNICAL DATA	Bitter-Bloc™ WS Liquid Concentrate Description: transparent light tan homogeneous liquid. Shelf Life: 2 years from date of manufacture when stored in its original, unopened container in a cool dry place.
SAFETY DATA	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).
HANDLING AND STORAGE	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.
COMMENTS	Contact SRx Representative for use guidance. MSDS available upon request. Water soluble. Use concentration limits have not been established. All ingredients are of plant-based origin, use concentration, like flavors, are based on user preference.