

# Bitter-Bloc™ Pure Powder

## Advanced Bitter Blocking Technology

Our Bitter-Bloc™ Pure Powder is the next generation technology protein to block flavor defects **Naturally**. 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.

**Our organic Bitter-Bloc™ can be formulated to work in hundreds of applications to effectively solve the bitter problems found in many APIs and excipients.**

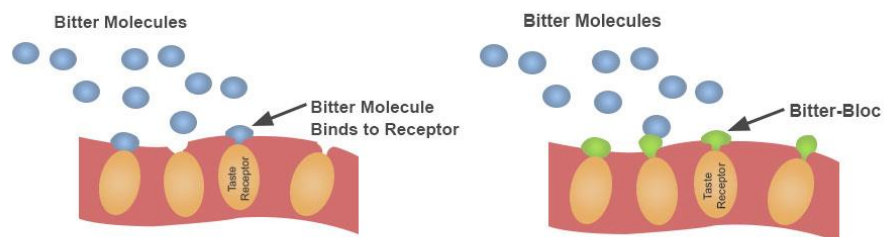
### HIGHLIGHTS

- ✓ Pediatric Medications
- ✓ Geriatric Medications
- ✓ Veterinary Medications
- ✓ Vitamin Supplements
- ✓ Reduced masking sweeteners
- ✓ Bitter Pharmaceuticals
- ✓ **100% Organic Plant Based**
- ✓ Anhydrous
- ✓ NON-GMO, Kosher
- ✓ Low pH Stable
- ✓ Heat Stable
- ✓ Preservative and Dye Free
- ✓ Gras Status

Bitter-Bloc™ Pure Powder	
SKU	Size
F0108-22	10 g
F0108-25	25 g
F0108-40	100g
F0108-50	500g
F0108-55	1Kg
Inquire for bulk quantities	
Contact SRx for Use Dilution	

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).

## Bitter Blocking Mechanism



- How much Bitter-Bloc™ do I need? Typically, the more bitter something is, the more Bitter-Bloc™ is needed. Typically, most aqueous formulas are effective around 100-500 ppm.
- Is Bitter-Bloc™ a sweetness modulator? Bitter-Bloc™ is not a sweetness modulator as it does not affect sweetness. However, in some cases tasters will notice an enhanced flavor profile. Since bitterness is a strong flavor, it often will overpower the other flavors present. Bitter-Bloc™ will bring down the bitterness perception to the point that other flavors are able to be perceived.
- Applications where Bitter-Bloc™ will not work? Yes, products with an active organism present such as an active probiotic. Overall, Bitter-Bloc is effective in most applications.

## 100% Natural Bitter-Bloc™ Technology

### Technical Data Sheet

<b>CATEGORY</b>	Natural flavor, Natural Extract, Organic Natural flavor, Organic Natural Extract approved for use in numerous countries including the US. Bitter-Bloc Concentrates are 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.
<b>INGREDIENTS</b>	A proprietary organic compound composed of naturally derived vegetable proteins, amino acids, and nucleic acids.
<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>	Description: Tan to off-white free-flowing powder Solubility: 99.5% soluble at up to 6% Bitter-Bloc m/v Density: 0.5 g/mL pH: 4.3 MP: 193-205°C (Heat stable up to 190°C/374°F) No known evidence of microwave degradation. 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: Due to some fine particles, this product is liable to become compacted. Storage Conditions: Product can be stored at ambient conditions for temperature, 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. Non-aqueous (oil) insoluble, but readily suspended in aqueous suspension vehicles. When introduced in an aqueous medium, the Bitter-Bloc Pure Powder is 99.5% water soluble.