

## Techna Natural™ SF UNSWEETENED

Troche Base

**Techna Natural™ SF (Unsweetened)** is a proprietary anhydrous troche base formula made with only natural ingredients, predominantly a vegetable origin triglycerides blend. It has a soft mouthfeel and includes natural suspending agents. Fortified with our proprietary Bitter-Bloc™ Technology that is excellent in blocking bitter and metallic off-notes from numerous compounds at the oral receptor sites.

Has a smooth off-white surface finish is ready for the addition of actives, sweetener, and preferred flavors.

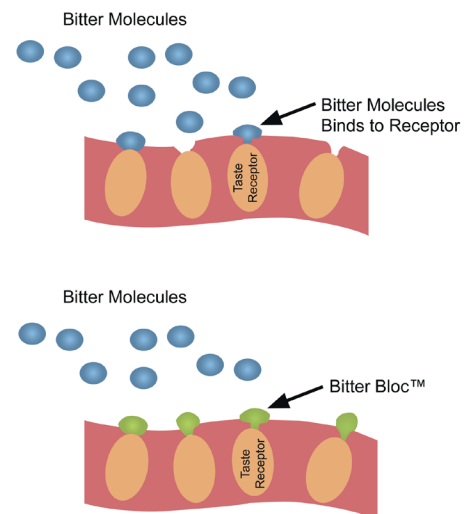
| SKU      | Size   | NDC/Reference No. |
|----------|--------|-------------------|
| B0232-40 | 100 g  | 72467-0232-40     |
| B0232-50 | 500 g  | 72467-0232-50     |
| B0232-60 | 2.5 kg | 72467-0232-60     |
| B0232-65 | 5 kg   | 72467-0232-65     |

### Highlights:

- ✓ Anhydrous (extended beyond-use dating)
- ✓ Great taste
- ✓ Gluten-free
- ✓ Non-GMO/vegan compliant
- ✓ Good friability properties
- ✓ Ideal melting range of 34-38°C
- ✓ Classified GRAS status organic ingredients
- ✓ Water and oil miscible
- ✓ Low pH stable
- ✓ No allergy declarations

### How Bitter-Bloc™ Technology Works:

Bitter-Bloc™ is an advanced protein technology that naturally blocks flavor defects in various applications, addressing palatability issues found in many APIs and excipients. Unlike other products that merely mask unpleasant flavors, this innovative solution effectively prevents these defects from reaching taste buds, resulting in a cleaner taste profile. This organic, water-soluble protein has been validated by third-party studies to modulate over 16 of the 25 bitter taste receptors on the tongue, significantly reducing bitterness perception. Additionally, it eliminates salty, metallic, astringent, and other off-notes in liquid, powder, or tablet-based oral formulations. With its versatile formulation capabilities, this protein technology offers a comprehensive solution for improving the taste profiles of compounded prescriptions, enhancing patient compliance and satisfaction.



### Tips:

- Recommended maintaining ambient room temperature between 65°-70° F (18-21 °C) and low humidity <50% is ideal when working with Techna Natural™ SF.
- Melt stirring slowly & frequently, maintaining a low heat source for the entire time that you are working with the base near 104-113 °F (40-45 °C). Do not overheat at high temperatures.
- After pouring into molds, it is recommended to allow to set up at room temperature- if placed in the fridge or freezer to set, there is potential for thermal cracking. If Techna Natural™ SF sets too quickly, it may become fragile.
- Recommended finished product storage is at ambient room temperature between: 65°-78° F (18-26 °C) or refrigerated.
- Use of flexible troche molds like SmartScripps™ will work best for storage and removing the prescription to prevent stress cracking.

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|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category           | Troche Base                                                                                                                                                                                                                                                                                                                                                                                     |
| Appearance         | White to off-white granules                                                                                                                                                                                                                                                                                                                                                                     |
| Description        | Techna Natural™ SF (Unsweetened) is an anhydrous, sugar-free, natural troche base that incorporates a unique natural bitter blocking technology for use in lozenge type oral/buccal cavity preparations. Enhanced with natural emulsifiers and suspending agents, it is ideally suited for buccal absorption of actives. Additional flavors, colors, and sweeteners can be easily incorporated. |
| Ingredients        | A proprietary formula that includes a vegetable origin triglycerides blend, natural thickening/suspending agents, sunflower lecithin, our natural Bitter-Bloc™ (bitter blocker and flavor enhancer) and other inert ingredients.                                                                                                                                                                |
| 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 nut, fish, crustacean shellfish, wheat, peanuts, and soybeans. Gluten-free, non-GMO/vegan compliant.                                                                                                                               |
| Technical Data     | Melting range: 40-45°C<br>Shelf Life: 2 years from date of manufacture when stored in its original, unopened container.<br>Density, g/cm <sup>3</sup> at 40°C approx. 1.0<br><b>SOLUBILITIES AT 20°C</b><br>- Ethanol 96°: Not very soluble<br>- Water: Insoluble<br>- Oils: Soluble                                                                                                            |
| Safety Data        | All ingredients classified as "Generally Recognized As Safe" (GRAS) and inactive excipient ingredients by the US FDA. For information on the toxicology and safety of this product, please consult the material safety data sheet (MSDS).                                                                                                                                                       |
| Handling & Storage | Comment: Due to physical properties some fine particles, this product is liable to become compacted.<br>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 below melting range or refrigerated.                                                       |
| Comments           | SpecializedRx makes no warranties or claims to the accuracy or completeness of the above information given the variations in use and formulations. Calibration study using SmartScripps™ Troche Molds available upon request.                                                                                                                                                                   |