

## Techna Natural™ Unsweetened Troche Base (G2)

### With Bitter-Bloc™ Technology

Techna Natural™ is our proprietary anhydrous troche base formula made with only natural ingredients, predominantly a proprietary vegetable origin triglycerides blend. Techna Natural™ has a creamy, soft mouthfeel and includes natural suspending/emulsifying agents as well as our proprietary Bitter-Bloc Technology that is excellent in blocking bitter and metallic off-notes from numerous compounds such as progesterone at the oral receptor sites. Techna Natural™ Troche Base has a natural off-white appearance, smooth surface finish, excellent mold release properties and is ready for the addition of actives and flavors.

#### Rx:

Techna Natural™ Troche Base	qs	
Active Drug		qs
Sweetener (if needed to preference)		qs
Flavor (oil miscible)		qs
Color		qs

1. Calculate the quantity of each ingredient for the total amount to be prepared. Most powders are added or deleted at a displacement factor of 70%, with the exception of highly micronized powders and liquids that would have a displacement factor of 100%.
2. Accurately weigh/measure each ingredient. It is recommended that you compound placebos to determine the average total base amount required. Note the API temperature degradation threshold.
3. Melt Techna Natural at 40-45°C. Do not overheat at high temperatures.
4. Once Techna Natural reaches a working temperature appropriate for the active(s) used, add API(s) into the melted base, prevent clumping, and ensuring addition is uniform before adding additional powder while maintaining a good working temperature. Mix thoroughly.
5. Once the API(s) have been added, incorporate additional sweetener, flavor and color to preference and mix well.
6. Pour the mixture into the SmartScripps™ Troche Molds, quickly filling each cavity.
7. Allow to cool at ambient room temperature.

Formulas and procedure should be adjusted base on use and the variety/quantity of ingredients to be used.

#### A few simple and helpful tips when working with Techna Natural:

- 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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### Technical Data Sheet

<b>CATEGORY</b>	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. Recommend flavor oils from 0.1-0.4%. To compound, heat Techna Natural to 45°C until liquified. Add APIs and flavor to liquid and mix uniformly. Pour into SmartScripps Troche Mold and allow to cool at room temperature.
<b>INGREDIENTS</b>	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.
<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 nut, fish, crustacean shellfish, wheat, peanuts, and soybeans. Gluten-free, non-GMO/vegan compliant.
<b>TECHNICAL DATA</b>	Description: White to off-white granules Melting range: 40-45°C Shelf Life: 2 years from date of manufacture when stored in its original, unopened container. Density, g/cm <sup>3</sup> at 40°C approx. 1.0 <b>SOLUBILITIES AT 20°C</b> - Ethanol 96°: Not very soluble - Water: Insoluble - Oils: Soluble
<b>SAFETY DATA</b>	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).
<b>HANDLING AND STORAGE</b>	Comment: Due to physical properties 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 below melting range or refrigerated.
<b>COMMENTS</b>	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.