



base formulation

This formulation represents PECMATE[™] Pectin Enhancer used at 0.35% dry basis (1.75% of 20% solution) applied in gummy candy.

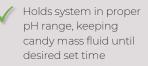
Pectin's Perfect Partner

PECMATE[™] Pectin Enhancer makes it easier to work with pectin to achieve true-to-fruit taste and consistent shape in vegan-friendly, gummy candies.

Key Advantages:



Prevents pre-gelling during production



Allows candy to gel properly once acid is added

Significantly reduces process variability



Gummy Candy FORMULATION

Ingredient	Percent (%)
Distilled Water	28.05
EFG White Cane Sugar (Portion A)	10.00
Buffered Pectin - Ceamsa 4420	2.00
EFG White Cane Sugar (Portion B)	17.00
Tapioca or Corn Syrup, 42 DE	40.45
20% PECMATE [™] Pectin Enhancer Solution*	1.75
50% Acid Solution (Citric or Malic)	0.75
Total	100.00

* This is a starting formula. The range can be 1.0 – 2.5% of 20% solution depending on specific formulation and processing.

preparation & procedure

STEP 1: INITIAL PREPARATION

- Dry blend buffered pectin and Portion A of sugar.
 NOTE: If original formula includes addition of sodium citrate, then add.
 This step is optional; the function of sodium citrate is not replaced by PECMATE[™] at this stage.
- Make a 20% solution of PECMATE[™] Pectin Enhancer.*
- Make a 50% solution of acid.

STEP 2: PECTIN HYDRATION

- Heat water in pot to boiling. Slowly sprinkle in sugar A/pectin blend while quickly whisking to ensure proper dispersal.
- Once all of the sugar A/pectin blend is added, bring back to a boil and boil for 2 minutes to ensure full hydration.

STEP 3: MOTHER SYRUP ADDITION

- Slowly add sugar B and syrup to batch and boil until a final solids of 77-82 brix is reached (final desired brix is dependent on depositing method).
- Critical Step: Reduce heat to stop boiling; hold at 180-200°F.

STEP 4: BFCAA ADDITION

- BFCAA: Buffer, Flavor, Color, Actives, Acids. It is very important to add the buffer solution first and the acid solution last.
- Add buffer (PECMATE[™]) solution until well blended, then add flavor and color.
- Quickly mix in acid solution to ensure dispersal, then deposit into molds as quickly as possible.



Bartek.