

Oral Care Formulations

Protect Mouth Spray

Formula# M300-3011C

Material# 874239

A long-lasting, fresh breath spray containing a film-forming polymer.

Ingredients (Trade Name)	INCI Name	% w/w	Supplier
Phase A			
Purified Water	Water/Aqua	QS to 100	In-House
Glycerin	Glycerin	8.000	Solvo-Chem
Gantrez™ S-97 BF Polymer	PVM/MA Copolymer	0.500	Ashland
Sodium Hydroxide (50% solution)	Sodium Hydroxide	0.366	Merck
Phase B			
Synperonic* PE/F 127	Poloxamer 407	3.000	Croda
Phase C			
Sodium Saccharin	Sodium Saccharin	0.050	Merck
Sodium Benzoate	Sodium Benzoate	0.250	Merck
FD&C Blue No. 1	CI 42090	0.0003	KOEL
Phase D			
Wintergreen Flavor	Flavor	0.500	Takasago
Benzoic Acid	Benzoic Acid	0.250	Merck
Total		100.00	

Lab processing procedure

1. Sprinkle Gantrez S-97BF powder into glycerin under the agitation of a propeller mixer until dissolved.
2. Slowly add water to the above mixture under agitation. Mix for 15 minutes at 700 rpm.
3. Neutralize above premix with sodium hydroxide under stirring.
4. Add poloxamer 407 flakes to the above neutralized mixture. Mix it until completely solubilized at 600 rpm.
5. Add Phase C to above mixture and mix for 10 minutes at 500 rpm.
6. Solubilize benzoic acid into flavor and add it slowly to above mixture and mix for 10 minutes at 500 rpm.

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Typical Properties

Appearance: Clear, transparent light blue liquid

pH: 5.5-5.7

This formula has passed 3-months accelerated stability test and a 28-day preservative efficacy test. However, the preservative system and flavor have not been optimized.

*Third party trademark

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