

## Oral Care Formulations

### Revive Mouth Rinse

Formula# M300-3011E

Material# 874240

A mouth rinse with a novel hydrogel for oral moisturization.

Ingredients (Trade Name)	INCI Name	% w/w	Supplier
<b>Phase A</b>			
Lubrajel** BA hydrogel	Water/Aqua [and] Glycerin [and] Butylene Glycol [and] Sodium Polyacrylate [and] Polyacrylic Acid [and] Benzoic Acid [and] EDTA	10.000	Ashland
Glycerin	Glycerin	5.000	Solvo-Chem
Purified Water	Water/Aqua	QS to 100	In-House
Synperonic* PE/F 127	Poloxamer-407	2.000	Croda
<b>Phase B</b>			
Sodium Saccharin	Sodium Saccharin	0.050	Merck
Sodium Benzoate	Sodium Benzoate	0.150	Merck
Sodium Hydroxide (50% solution)	Sodium Hydroxide	0.150	Merck
FD&C Blue No. 1	CI 42090	0.0003	BASF
<b>Phase C</b>			
Sodium Lauryl Sulfate	Sodium Lauryl Sulfate	0.375	Merck
<b>Phase D</b>			
Wintergreen Flavor	Flavor	0.500	Takasago
Benzoic Acid	Benzoic Acid	0.150	Merck
<b>Total</b>		<b>100.00</b>	

#### Lab processing procedure

1. Mix Lubrajel BA hydrogel and glycerin under stirrer at 800 rpm.
2. Add purified water slowly to the above under agitation at 500 rpm. Mix for 120 minutes at 1000 rpm.
3. Add poloxamer 407 flakes to the above neutralized mixture. Mix it until completely solubilized at 800 rpm.
4. Add Phase B ingredients to above mixture and mix for 10 minutes at 500 rpm.
5. Add sodium lauryl sulfate to above mixture and mix for 5 minutes at 500 rpm.
6. Solubilize benzoic acid in flavor and add it slowly to above mixture and mix for 10 minutes at 500 rpm.

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### Typical Properties

**Appearance:** Slight 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.

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Version 1. December2016

