Anti-Plaque Mouthwash with Zinc Citrate

Phase	Ingredients	INCI	Supplier	Quantity
	Pricerine 9091	Glycerin	Croda	7.50 %
	RonaCare® CPC	Cetylpyridinium Chloride	Merck	0.10 %
	Water 1, deionised	Aqua		7.50 %
	Sodium Gluconate	Sodium Gluconate	**Jungbunzlauer**	0.20 %
	Water 2, deionised	Aqua		7.50 %
A	ERYLITE® Stevia 400	Erythritol, Stevia Rebaudiana Extract	**Jungbunzlauer**	2.50 %
	Water 3, deionised	Aqua		7.50 %
	PHOSKADENT® SF	Sodium Fluoride	ICL Perfomance Products	0.06 %
	Water 4, deionised	Aqua		7.50 %
	D- Panthenol 75 %	Panthenol	Merck	0.50 %
	Zinc Citrate M2050	Zinc Citrate	**Jungbunzlauer**	1.00 %
B	Tripotassium Citrate	Potassium Citrate	**Jungbunzlauer**	1.50 %
	Water 5, deionised	Aqua		55.64 %
C	XG FFCS-OC	Xanthan Gum	**Jungbunzlauer**	0.05 %
	Tego® Betain ZF	Cocamidopropyl Betaine	Evonik	0.70 %
D	Mint Flavouring 84F021	Flavour	Robertet	0.20 %
	Mint Flavouring 84H890	Flavour	Robertet	0.05 %
E	Colour Blue 20	CI 42051	Th. Geyer	0.00025 %
F	NaOH 10 %	Sodium Hydroxide	Merck	Qs

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Directions

1   Dissolve cetylpyridinium chloride in glycerin and add slowly "water 1".
    Pre-dissolve sodium gluconate, ERYLITE® Stevia and PHOSKADENT® SF
    in 7.50 % water each, then add one after the other to the solution.
    A propeller stirrer is suggested. Add D-Panthenol
2   Mix phase B (may not dissolve entirely) and add to phase A.
    Mix at room temperature until you have a clear solution
3   Add xanthan gum slowly in small portions and stir at full power
    until xanthan gum is completely dissolved (it may take a while!)
4   Add phase D after mixing separately until solution is completely
    homogenous
5   Add phase E and mix at room temperature
6   Set pH value with phase F if necessary

Technical Data

Appearance: clear liquid
pH value: 6.7 – 7.2

Stability

Stable for 3 months at 20 °C, 4 °C and 40 °C, 1 month at 45 °C

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