

Anti-Acne Gel Using Carbopol® Ultrez 10 Polymer

This transparent anti-acne gel features **Carbopol® Ultrez 10 polymer** and tea tree oil.

Ingredient /INCI-CTFA Name	Weight, %	Function	Trade Name (Supplier)
PART A			
1. Deionized Water	88.105	Diluent	
2. Carbomer	0.60	Rheology Modifier	Carbopol® Ultrez 10 Polymer (Noveon, Inc.)
PART B			
3. Tetrasodium EDTA	0.10	Chelating Agent	Trilon B Liquid (BASF)
4. Propylene Glycol	5.00	Humectant	
PART C			
5. Aminomethyl Propanol	0.36	Neutralizing Agent	AMP-95® (Angus)
6. Deionized Water	2.40	Diluent	
PART D			
7. Propylene Glycol (and) Methylparaben (and) Propylparaben (and) Diazolidinyl Urea	0.60	Preservative	Germaben® II-E (Sutton)
8. Tea Tree Oil (Melaleuca Alternifolia)	2.70	Anti-Acne Active	Water Soluble Tea Tree Oil (Main Camp)
PART E			
9. FD&C Yellow No. 6 / CI 15985 (1% solution)	0.10	Dye	(Noveon Hilton Davis)
10. FD&C Blue No. 1 / CI 42090 (0.25% solution)	0.035	Dye	(Noveon Hilton Davis)
		F9931.3	(OVER →)

PROPERTIES :

Appearance:	Clear, green gel
pH :	5.8 – 6.4
Viscosity* (cP) @ 25°C:	48,000 - 54,000
Stability Data:	Passed 1 month @ 45°C Freeze/Thaw - 5 cycles

*Brookfield DV - II+ (or RVT) @ 20 rpm, RV spindle # 7

PREPARATION PROCEDURE:

1. Sprinkle **Carbopol[®] Ultrez 10** on the surface of deionized water. After the polymer is thoroughly wetted, mix at low speed.
2. Add the ingredients of PART B to the **Carbopol[®] Ultrez 10** dispersion one after the other and mix until uniform.
3. Dissolve AMP-95[®] in deionized water, add to the batch and mix until uniform.
4. Add the ingredients of PART D in order to the batch. Mix after each addition until uniform.
5. Add the pigments and mix until uniform.

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