

## Whitening Cream containing Tranexamic Acid

FL-TA-00101

	<b>Ingredients</b>	<b>INCI</b>	<b>[wt.%]</b>	<b>Supplier</b>
	<b>A</b>			
1	Tego Care 150	Glyceryl stearate, steareth-25, ceteth-20, stearyl alcohol	8.00	ISP
2	Miglyol 812 N	Caprylic/capric triglyceride	0.70	SEPPIC
3	Isopropyl myristate	Isopropyl myristate	2.00	
4	Paraffin	Paraffin	2.00	
5	Paraffinum liquidum (mineraloil)	Paraffinum liquidum (mineraloil)	12.00	
	<b>B</b>			
6	Butane-1,3-diol	Butylene glycol	4.00	
7	Sorbitol F liquid	Sorbitol	2.00	Merck KGaA
8	Deionized water	Aqua (water)	54.50	
	<b>C</b>			
9	Ethyl ascorbic acid	3-O-Ethyl ascorbic acid	1.00	<b>M.C.Biotec</b>
10	*Citric Acid buffer	Citric acid (and) Trisodium citrate (and) water	1.00	
11	Tranexamic acid	Tranexamic acid	1.00	<b>M.C.Biotec</b>
12	Dipotassium glycyrrhizinate	Dipotassium glycyrrhizinate	0.50	<b>M.C.Biotec</b>
13	Aqua (water)	Aqua (water)	8.0	
14	L-cysteine	L-cysteine	1.00	
	<b>D</b>			
15	Diocide	Caprylyl Glycol (and) Phenoxyethanol (and) Hexylene Glycol	0.50	
16	Fragrance	Parfum	1.0	

### Procedure

1. In Phase C, dissolve Ethyl ascorbic acid in water and add citric acid buffer, and then add other ingredients in Phase C..
2. Heat phase A and B separately to 75° C.
3. Add phase A slowly into phase B with gently stirring. Homogenize at 65 °C for one minute. Cool.
4. At 40° C add phase C with stirring.
5. At 35° C add phase D while stirring, cool down.

<b>*Citric Acid buffer</b>	
	<b>%w/w</b>
Citric acid	1.0
Trisodium citrate	15.0
Water	ad 100.0

**Whitening Gel containing Tranexamic Acid**

FL-TA-00102

<b>Ingredients</b>	<b>INCI</b>	<b>[wt.%]</b>	<b>Supplier</b>
<b>A</b>			
1 Stabileze QM	PVM/MA Decadiene Crosspolymer	1.00	ISP
2 Diocide	Caprylyl Glycol (and) Phenoxyethanol (and) Hexylene Glycol	0.70	SEPPIC
3 Demineralised water	Water (Aqua)	83.00	
4 5% Sodium hydroxide	Sodium hydroxide (and) water	Adjust pH to 3.7	
<b>B</b>			
5 Demineralised water	Water (Aqua)	9.00	
6 Tranexamic acid	Tranexamic acid	1.00	<b>M.C. Biotec</b>
7 L-cysteine	L-cysteine	1.00	Merck KGaA
8 Magnesium Ascorbyl Phosphate	Magnesium Ascorbyl Phosphate	1.00	<b>M.C. Biotec</b>
9 Panax ginseng root extract	Panax ginseng root extract	2.00	

**Procedure**

1. Mix together the ingredients in Phase A, adjust the pH to 3.7 with sodium hydroxide solution.
2. Add Phase B to Phase A, mix well.