

# TRANEXAMIC ACID

---Whitening & Improving Rough Skin

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## Whitening Lotion Containing Tranexamic Acid and Disodium Adenosine Triphosphate

FL-TA-00101

Ingredients	INCI	[wt.%]	Supplier
A			
1 Lipomulse Luxe	Cetearyl alcohol & glyceryl stearate & PEG-40 Stearate & Ceteareth-20	4.00	LIPO
2 Cetearyl Alcohol	Cetearyl Alcohol	3.00	Cognis
3 Tegosoft DEC	Diethylhexyl carbonate	4.00	Degussa
4 GTCC	Caprylic/capric triglyceride	4.00	Croda
5 DC245	Cyclopentasiloxane	5.00	Dow corning
6 DC200/10	Dimethicone	2.00	Dow corning
7 Ganex® V-216	VP/Hexadecene Copolymer	1.00	ISP
B			
8 Water	Water	70.08	
9 Glycerin	Glycerin	4.00	Merck
10 1,3-butylene glycol	Butylene glycol	4.00	Kyowa Hakko USA
11 Keltrol CG-RD	Xanthan Gum	0.10	CP Kelco
C			
12 Water	Water ( aqua)	5.00	
13 <b>Tranexamic acid</b>	<b>Tranexamic acid</b>	3.0	<b>M.C.Biotec</b>
14 <b>Disodium adenosine triphosphate</b>	<b>Disodium adenosine triphosphate</b>	0.5	<b>M.C.Biotec</b>
15 <b>Magnesium Ascorbyl Phosphate</b>	<b>Magnesium Ascorbyl Phosphate</b>	1.00	<b>M.C.Biotec</b>
16 <b>1% Sodium hyaluronate</b>	<b>Sodium hyaluronate and water</b>	4.00	<b>M.C.Biotec</b>
17 EDTA disodium	EDTA disodium	0.02	Merck
D			
18 Euxyl PE9010/	Phenoxyethanol & Ethylhexylglycerin	0.80	Schulke
Total		100.00	

### **Procedure:**

1. Mix Phase A and heat to 70°C
2. Disperse Xanthan Gum of Phase B in water and glycerin, then add butylene glycol and heat to 70°C .
3. Mix above “1” and “2” together, cool with stirring
4. Combine Phase C and at 40-45°C, add to above “3” with stirring

5. Add Phase D at 40°C with stirring.

*M.C.Biotec hopes that the technical information and suggestions for use contained herein will be of interest to you, but they are not to be construed as warranties or inducements to infringe any particular patent.*

## Whitening Lotion Comprising Tranexamic Acid and Amino Acid

FL-TA-00201

Ingredients	INCI Name	Wt.%	Suppliers
A			
1 Cutina GMS	Glyceryl stearate	12.00	Cognis
2 Eumulgin B1	Cetareth-12	1.50	Cognis
3 Eumulgin B2	Cetareth-20	1.50	Cognis
4 Isopropyl myristate	Isopropyl myristate	4.00	<b>M.C.Biotec</b>
5 Paraffin oil	Mineral oil	7.00	ChevronTexaco Global Lubricants
6 Miglyol 812	Caprylic/capric acid triglyceride	4.00	Sasol Germany GmbH
7 RonaCare® Bisabolol nat.	Alpha bisobola	0.20	Merck KGaA
B			
8 Demineralised water	Water (Aqua)	57.40	
9 Arlasolve DMI	Dimethyl isosorbide	3.00	Croda
C			
10 Demineralised water	Water (Aqua)	5.00	
11 <b>Tranexamic Acid</b>	<b>Tranexamic Acid</b>	1.5	<b>M.C.Biotec</b>
12 <b>L-cysteine</b>	<b>L-cysteine</b>	1.0	<b>M.C.Biotec</b>
<b>MC- MAP</b>	<b>Magnesium Ascorbyl Phosphate</b>	1.0	<b>M.C.Biotec</b>
13 Sodium metabisulfite	Sodium metabisulfite	0.10	<b>M.C.Biotec</b>
D			
14 Euxyl PE9010	Phenoxyethanol & Ethylhexylglycerin	0.80	Schulke
Total		100.00	

### **Procedure:**

- Mix together Phase A and heat to 70°C
- Mix together Phase B and heat to 75°C
- Add above "2" to "1" with stirring, homogenize and cool to 40°C
- Add Phase C to above "3" with stirring at 40°C, followed by Phase D with stirring. Stir to cool.

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## Tranexamic Acid Whitening Cream with Ethyl Ascorbic Acid

FC-TA-00101

	<b>Ingredients</b>	<b>INCI Name</b>	<b>wt. %</b>	<b>Supplier</b>
	<b>A</b>			
1	Tego Care 150	Glyceryl stearate, steareth-25, ceteth-20, stearyl alcohol	8.00	Degussa-Goldschmidt AG
2	Miglyol 812 N	Caprylic/capric triglyceride	3.00	Sasol Germany GmbH
3	Isopropyl myristate	Isopropyl myristate	2.00	<b>M.C.Biotec Inc.</b>
4	Paraffin liquid	Paraffinum liquidum (mineral oil)	12.00	Merck KGaA
5	Paraffin	Paraffin	2.00	Merck KGaA
	<b>B</b>			
6	Butane-1,3-diol	Butylene glycol	4.00	Merck Schuchardt OHG
7	Sorbitol F liquid	Sorbitol	2.00	Merck KGaA
8	Deionized water	Aqua (water)	54.50	
	<b>C</b>			
9	<b>Tranexamic acid</b>	<b>Tranexamic acid</b>	1.00	<b>M.C.Biotec Inc.</b>
10	<b>L-cysteine</b>	<b>L-cysteine</b>	1.00	<b>M.C.Biotec Inc.</b>
11	<b>Ethyl ascorbic acid</b>	<b>3-O-ethyl ascorbic acid</b>	1.00	<b>M.C.Biotec Inc.</b>
12	Dipotassium glycyrrhizinate	Dipotassium glycyrrhizinate	0.50	<b>M.C.Biotec Inc.</b>
13	Deionized water	Aqua (water)	8.00	
	<b>D</b>			
14	Diocide	Caprylyl Glycol, Phenoxyethanol, Hexylene Glycol	0.50	Centerchem Inc.
15	Fragrance	Parfum	0.50	
	<b>Total</b>		<b>100.00</b>	

### **Procedure:**

1. Heat phase A and B separately to 75° C.
2. Add phase A slowly into phase B with gently stirring. Homogenize at 65 °C for one minute. Cool.
3. At 40° C add phase C with stirring.
4. At 35° C add phase D while stirring, cool down.

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## Whitening Cream Comprising Tranexamic Acid and MAP

FC-TA-00201

	<b>Ingredients</b>	<b>INCI</b>	<b>wt. %</b>	<b>Suppliers</b>
	<b>A</b>			
1	TEGO® Care 150	Glyceryl Stearate, Steareth-25, Ceteth-20, Stearyl Alcohol	8.00	Evonik Goldschmidt
2	Lanette O	Ceteary Alcohol	1.50	Cognis GmbH
3	TEGOSOFT® liquid	Cetearyl Ethylhexanoate	5.50	Degussa AG
4	NEOBEE® 1053	Caprylic/Capric Triglyceride	5.50	Stepan
5	ABIL® Wax 2434	Stearoxy Dimethicone	1.00	Evonik Goldschmidt
6	ABIL® 350	Dimethicone	0.50	Evonik Goldschmidt
7	Tocopheryl Acetate	Tocopheryl Acetate	0.50	<b>M.C.Biotec Inc.</b>
	<b>B</b>			
8	Butane-1,3-diol	Butylene glycol	2.00	Kyowa Hakko Chemical
9	Water	Aqua ( water)	61.10	
	<b>C</b>			
10	Sodium Metabisulfite	Sodium Metabisulfite	0.10	<b>M.C.Biotec Inc.</b>
11	<b>Tranexamic acid</b>	<b>Tranexamic acid</b>	1.00	<b>M.C.Biotec Inc.</b>
12	<b>L-cysteine</b>	<b>L-cysteine</b>	1.00	<b>M.C.Biotec Inc.</b>
13	<b>MC- MAP</b>	<b>Magnesium ascorbyl phosphate</b>	1.00	<b>M.C.Biotec Inc.</b>
14	Arlasolve DMI	Dimethyl isosorbide	2.50	Croda
15	Water	Aqua (water)	8.00	
16	<b>D</b>			
17	Fragrance	Perfume	0.10	
18	Diocide	Caprylyl Glycol, Phenoxyethanol, Hexylene Glycol	0.70	Centerchem Inc.
	<b>Total</b>		<b>100.00</b>	

### **Procedure:**

1. Heat phase A and B separately to 80°C.
2. Slowly add phase B to A with stirring and homogenized. Cool the mixture with stirring and homogenized
3. Add Phase C to above “2” at 40°C, and then add Phase D

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## Tranexamic Acid Whitening Moistening Cream

FC-TA-00301

	<b>Ingredients</b>	<b>INCI Name</b>	<b>[wt.%]</b>	<b>Suppliers</b>
	<b>A</b>			
1	TEGO® Care 150	Glyceryl Stearate (and) Steareth-25 (and) Ceteth-20 (and) Stearyl Alcohol	9.00	Evonik Goldschmidt GmbH
2	TEGO® Alkanol 18	Stearyl Alcohol	1.00	Evonik Goldschmidt
3	Paraffin liquid	Mineral oil	5.50	Merck KGaA
	Squalane	Squalane	3.00	
4	Octyldodecanol	Octyldodecanol	2.50	Cognis GmbH
5	TEGOSOFT® CT	Caprylic/Capric Triglycerides	2.00	Evonik Goldschmidt
	<b>B</b>			
6	Butane-1,3-diol	Butylene glycol	3.00	Kyowa Hakko USA
7	Sorbitol USP Powder	Sorbitol	3.00	Lipo Chemicals
8	Water	Water	45.00	
	<b>C</b>			
9	<b>Tranexamic acid</b>	<b>Tranexamic acid</b>	5.00	<b>M.C.Biotec Inc.</b>
11	<b>Disodium adenosine triphosphate</b>	<b>Disodium adenosine triphosphate</b>	5.00	<b>M.C.Biotec Inc.</b>
	<b>1% Sodium hyaluronate</b>	<b>Sodium hyaluronate and water</b>	5.00	<b>M.C.Biotec Inc.</b>
12	Water, demineralized	Water ( Aqua)	10.00	
	<b>D</b>			
13	Pink love 2	Perfume	0.50	Symrise
14	Diocide	Caprylyl Glycol, Phenoxyethanol, Hexylene Glycol	0.500	Centerchem Inc.
	<b>Total</b>		<b>100.00</b>	

### **Procedure:**

1. Separately heat phase A and phase B to approx. 65°C.
2. Add phase A to phase B while stirring. Homogenize. Or, combine the hot water (phase B) and oil phase (phase A) without stirring (to avoid the building of the water-in-oil form) and start afterwards with the homogenisation. During cooling, keep a constant horizontal and vertical movement of the emulsion.
3. Add phase C at 35 -45°C, followed by phase D

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## Tranexamic Acid Whitening Gel

FG-TA-00101

Ingredients	INCI Name	Wt. %	Suppliers
A			
1 Stabileze QM	PVM/MA Decadiene Crosspolymer	1.0	ISP
2 Diocide	Caprylyl Glycol, Phenoxyethanol, Hexylene Glycol	0.7	Centerchem
3 Demineralised water	Water (Aqua)	83.3	
4 5% Sodium hydroxide	Sodium hydroxide (and) water	Adjusting pH to 3.7	
B			
5 Demineralised water	Water (Aqua)	9.0	
6 <b>Tranexamic acid</b>	<b>Tranexamic acid</b>	1.0	<b>M.C.Biotec</b>
7 <b>L-cysteine</b>	<b>L-cysteine</b>	1.0	<b>M.C.Biotec</b>
8 <b>MC- MAP</b>	<b>Magnesium ascorbyl phosphate</b>	1.0	<b>M.C.Biotec</b>
9 <b>Ginseng extract</b>	<b>Panax ginseng root extract</b>	2.0	<b>M.C.Biotec</b>
Total		100%	

### **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.

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## Lip Treatment with Tranexamic Acid

FLip-TA-00101

Ingredients	INCI	[wt.%]	Supplier
<b>A</b>			
1 Candelilla wax	Euphorbia Cerifera (Candelilla) Wax	9.0	Brenntag Specialties Inc.
2 Solid paraffin	Paraffin	8.0	Evonik Degussa GmbH
3 Molasses	Molasses	5.0	Technical Art of Science
4 Carnauba wax	Copernicia Cerifera (carnauba) wax	5.0	Croda
5 Lanolin	Lanolin Castor oil	10.0	DeWolf Chemical
6 Castor oil balance Chitin		0.07	
7 Isopropyl myristate	Isopropyl myristate	10.0	<b>M.C.Biotec</b>
8 BHT	BHT	0.1	<b>M.C.Biotec</b>
9 Vitamin E Acetate	Tocopheryl Acetate	0.2	<b>M.C.Biotec</b>
<b>B</b>			
10 Water	Water	54.2	
11 Glycerin	Glycerin	1.0	Merck
<b>C</b>			
12 Water	Water	5.0	
13 <b>Tranexamic acid</b>	<b>Tranexamic acid</b>	0.01	<b>M.C.Biotec</b>
14 <b>Disodium adenosine triphosphate</b>	<b>Disodium adenosine triphosphate</b>	0.0001	<b>M.C.Biotec</b>
15 <b>Ginseng extract</b>	<b>Panax ginseng root extract</b>	0.005	<b>M.C.Biotec</b>
<b>D</b>			
16 Euxyl PE9010	Phenoxyethanol & Ethylhexylglycerin	0.8	Schulke
Total		100.0	

### Procedure:

1. Separately heat Phase A and B to 70°C, add B to A with stirring. Cool with stirring
2. Add Phase C at 40°C with stirring, then add Phase D with stirring.

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## Facial Mask with Tranexamic Acid and Soluble Pearl Powder

FFM-TA-00101

Ingredients	INCI	[wt.%]	Supplier
A			
1 Ethanol	Ethanol	8.0	Dow
2 PVA	Polyvinyl alcohol	15.0	Merck Schuchardt OHG
B			
3 Water	Water	57.4	
4 Methyl cellulose	Methyl cellulose	0.5	The Dow Chemical Company
5 Butylene glycol	Butylene glycol	5.0	Merck
6 Ethyl p-hydroxybenzoate	Ethylparaben	0.1	Merck
C			
7 Water	Water	8.0	
8 Glycerin	Glycerin	1.0	Merck
9 <b>Tranexamic acid</b>	<b>Tranexamic acid</b>	0.01	<b>M.C.Biotec</b>
10 <b>Disodium adenosine triphosphate</b>	<b>Disodium adenosine triphosphate</b>	0.0005	<b>M.C.Biotec</b>
11 <b>Ginseng extract</b>	<b>Panax ginseng root extract</b>	3.0	<b>M.C.Biotec</b>
12 <b>Soluble pearl powder</b>	<b>Hydrolyzed Pearl</b>	2.0	<b>M.C.Biotec</b>
Total		100.0	

### **Procedure:**

Moisten PVA with ethanol, then add to part B, heat to 70°C with stirring, cool to 40°C, then add part C with stirring.

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