To recover hair growth cycle

FUJI MULBERRY ROOT EXTRACT

For hair growth tonic

Japanese patent No.3505200
What is MULBERRY ROOT EXTRACT?

- MULBERRY ROOT EXTRACT has been used in traditional Chinese medicine for
  A. the prevention of hypertension
  B. Relieving fatigue
  C. Tonic property
- It is recently used in cosmetics for whitening effectiveness.

FUJI MULBERRY ROOT EXTRACT

As a result of having tried various extraction method, We found its new effect!

FUJI MULBERRY ROOT EXTRACT recovers hair growth cycle, which causes improvement of thinning hair.

Active ingredients in FUJI MULBERRY ROOT EXTRACT

FUJI MULBERRY ROOT EXTRACT includes β-tocopherol that has been confirmed by the test as one of the active ingredients to recover hair growth cycle.

Moreover we assume that there should be more than 2 other effective ingredients in it but unfortunately we have not been able to find them out at this moment.

Clinical efficacy

Main hospital: Kochi Red Cross Hospital etc.  Subject: Male and female pattern alopecia
Number: Male 55, Female 13  Length: 3~9 months
Dose: Twice a day ( For a dose: 2mL )

<table>
<thead>
<tr>
<th></th>
<th>Prominent improvement</th>
<th>Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male pattern alopecia</td>
<td>60.0% (33/55)</td>
<td>17.6% (12/68)</td>
</tr>
<tr>
<td>Female pattern alopecia</td>
<td>53.8% (7/13)</td>
<td>41.2% (28/68)</td>
</tr>
<tr>
<td>Total</td>
<td>58.8% (40/68)</td>
<td></td>
</tr>
</tbody>
</table>
Prominent improvement of the human clinical test

Prominent improvement is defined that more than 50% of thinning hair is improved comparing with before testing.

These are the pictures of the prominent improvement of the human clinical test.

Age39 male
Before treatment
After treatment for 6 months

Age56 male
Before treatment
After treatment for 4 months

Age63 female
Before treatment
After treatment for 7 months

Age65 female
Before treatment
After treatment for 7 months

Age69 female
Before treatment
After treatment for 7 months

Age77 female
Before treatment
After treatment for 6 months
Blending example of FUJI MULBERRY ROOT EXTRACT  For hair growth tonic

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Main potent and the its purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUJI MULBERRY ROOT EXTRACT</td>
<td>Hair growth cycle recovering</td>
</tr>
<tr>
<td>GLYCIRRHETINIC ACID</td>
<td>Anti-inflammatory effect</td>
</tr>
<tr>
<td>TOCOPHERYL ACETATE</td>
<td>Improvement of blood circulation</td>
</tr>
<tr>
<td>PANTHENYL ETHYL ETHER</td>
<td>Metabolism activated effect</td>
</tr>
<tr>
<td>MENTHOL</td>
<td>Anti-pruritic action and algefacient</td>
</tr>
<tr>
<td>PPG-6-DECYL TETRADECETH-12</td>
<td>Stabilizing agent</td>
</tr>
<tr>
<td>FRAGRANCE</td>
<td>Flavoring agent</td>
</tr>
<tr>
<td>ALCOHOL DENAT</td>
<td>Solvent</td>
</tr>
<tr>
<td>Water</td>
<td>Solvent</td>
</tr>
</tbody>
</table>

※ Combination ratio of FUJI MULBERRY ROOT EXTRACT: 30%

We did human clinical test on 40 men by the hair growth tonic of this blending example. Consequently we confirmed very high improvement rate that are prominent improvement of 20% and improvement of 27.5%.

Material information

<table>
<thead>
<tr>
<th>Ingredient of FUJI MULBERRY ROOT EXTRACT</th>
<th>Verification test</th>
</tr>
</thead>
<tbody>
<tr>
<td>MORUS ALBA ROOT EXTRACT ALCOHOL WATER</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Yellow brown colored and transparent liquid with peculiar smell. Metallic taste.

<table>
<thead>
<tr>
<th>Value of merit</th>
<th>Purity test</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Specific gravity</td>
<td>Alcohol number</td>
</tr>
<tr>
<td>4.2~5.2</td>
<td>d ≈ 0.82~0.92</td>
<td>More than 7.5</td>
</tr>
</tbody>
</table>

Component content

<table>
<thead>
<tr>
<th>Residue on evaporation</th>
<th>Residue on ignition</th>
<th>Extractive content n-hexaneextract</th>
<th>SanggenonC content</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0~1.2%</td>
<td>Max. 0.1%</td>
<td>12~36%</td>
<td>0.16~0.50mg/mL</td>
</tr>
</tbody>
</table>

Product name Aspect

<table>
<thead>
<tr>
<th>Product name</th>
<th>Aspect</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUJI MULBERRY ROOT EXTRACT</td>
<td>Liquid</td>
</tr>
</tbody>
</table>

40 degrees C for 6 months, room temperature for 3 years — Preserve the quality

For storage: You should store it in the bottle with airtight stopper in a cool and dark place and keep it away from fire and heat resource.

Distributor  I.T.O. Co., LTD.
1-6-7-3F, Naka-cho, Musashino-shi, Tokyo 180-0006 JAPAN
Phone: +81-422-60-3434 FAX: +81-422-60-3435
URL: http://www.provitamin.jp E-mail: ito@provitamin.jp

Manufacturer  FUJI SANGYO Co., LTD.
1301 Tamura-cho, Marugame-shi, Kagawa 763-8603 JAPAN
FUJI MULBERRY ROOT EXTRACT for Hair growth

We did human clinical test on 40 men by the hair growth tonic of the blending example.

Blending example of FUJI MULBERRY ROOT EXTRACT

FUJI MULBERRY ROOT EXTRACT (30%)
GLYCIRETHINIC ACID/ TOCOPHERYL ACETATE
PANTHENYL ETHYL ETHER/ MENTHOL
PPG-6-DECYL TETRADECETH-12/ FRAGRANCE
ALCOHOL DENAT/ WATER

Subject: Male pattern alopecia (age 21~69: Average age is 41)
Number: Male 40

Improvement 47.5%

<table>
<thead>
<tr>
<th>Improvement</th>
<th>Prominent improvement</th>
<th>Improvement</th>
<th>No improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.0% (8/40)</td>
<td>27.5% (11/40)</td>
<td>52.5% (21/40)</td>
<td></td>
</tr>
</tbody>
</table>

Consequently we confirmed very high improvement rate that are prominent improvement of 20% and improvement of 27.5%.

Prominent improvement example

Age32 male
Before treatment | After treatment for 6 months
Age36 male
Before treatment | After treatment for 7 months
Age30 male
Before treatment | After treatment for 6 months
Age57 male
Before treatment | After treatment for 5 months
Age38 male
Before treatment | After treatment for 6 months
Age28 male
Before treatment | After treatment for 9 months

FUJI SANGYO Co., LTD.