

# EMU OIL

Emu is a kind of flat breasts (runners) similar to ostriches.

It has been an unrealistic bird among chemists since ancient times, Aboriginal indigenous of Australia, the oil obtained from the fat, wound healing and burns, has been widely used, for example, the treatment of rough skin. Currently utilizing this superior function, It is used for care of skin trouble such as dry skin・rough skin・wrinkle. Also, athletes from around the world use it as a mitigation / mitigating agent for muscle pain and arthralgia.

## Chemical structure

INCI : EMU OIL  
 Japanese Cosmetic Labeling Name : エミュー油  
 中文名称(Chinese INCI Name) : 鸸鹋油  
 CASNo. : 158570-96-8

## Application

- Cream
- Massage oil
- Soap・Body soap
- Treatment of burns (including sunburn)

## Specification

This product is a fatty oil obtained from the subcutaneous tissue of Emu *Dromaeus novae-hollandiae* Latham (Dromicelidae). It consists mainly of triglycerides of oleic acid, stearic acid, linolenic acid and palmitic acid.

Item	Specification	Analytical Method
Property	This product is colorless to pale yellow liquid or petrolatum like substance, there is a slightly unique odor.	Sensory
Confirmation test	Absorption are observed around wavenumbers 2950 cm <sup>-1</sup> , 1750 cm <sup>-1</sup> , 1420 cm <sup>-1</sup> , and 1160 cm <sup>-1</sup> as measured by Infrared Spectroscopy (IR) by liquid film method.	Infrared Spectroscopy (IR)
Acid value	< 1.0	JSQI2006
Saponification value	190~200	JSQI2006
Iodine value	40~80	JSQI2006
Purity test (1)	Heavy metal < 20ppm	JSQI2006
Purity test (2)	Arsenic < 2ppm	JSQI2006
Loss on ignition	< 0.1%	JSQI2006

## Features

- TGA (Therapeutic Goods Administration)・Public Summary
- JSQI2006・EU standard・Chinese INCI Name
- Preservative free
- Natural Omega-3,6,9 fatty acid containing
- Carry-over component (tocopherol), residual agricultural chemicals, genetically modified cereal feed, no use
- Government of Australia "Emu breeding license" acquired Farm (no use of antibiotics・growth promoter)

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## TGA(Therapeutic Goods Administration) Effect / efficacy

- Relief of joint pain
- Reduce inflammation of arthritis
- Relief of the symptoms of eczema
- Relaxation of muscle pain
- Relaxation of premenstrual symptoms / syndromes
- Relief of arthritis pain
- Relaxation of the effect of skin psoriasis (skin keratosis disease)

References:Emu Oil : its anti-inflammatory properties :a report for the Rural Industries Research and Development Corporation / by J.M. Snowden, P.J. O'Malley and T.M. Ellis.Snowden, John M. 1999

## Composition

C-References	fatty acid	Proportion	Characteristic	Saturated/Unsaturated
C12	Lauric acid	>0.1		Saturated
C14	Myristic acid	0.2		Saturated
C-16	Palmitic acid	25.1		Saturated
C-16:1	Palmitoleic acid	4.8	Improve insulin sensitivity · Suppress inflammatory genes	Unsaturated
C-18	Stearic acid	10.1		Saturated
C-18:1	Oil acid	55.1	Omega-9 fatty acid , Low skin irritation	Unsaturated
C-18:2	Linoleic acid	4.4	Omega-6 fatty acid	Unsaturated
C-18:3	Linolenic acid	0.3	Omega-3 fatty acid	Unsaturated
C20	Arachidic acid	>0.1		Saturated

※The above values are only measured values and do not guarantee quality.

## Formulation

### Emu hand & body lotion

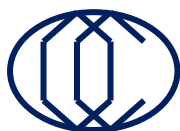
	wt%
Aqua	>50.0
EMU OIL	<20.0
Aloe Barbadensis Leaf Extract	<6.0
Tocopheryl Acetate	<5.0
Stearic Acid	<5.0
Glyceryl stearate	<3.0
Dimethicone	<3.0
Ethanolamine	<1.0
Methylparaben	Reasonable
Propyl paraben	Reasonable
Fragrance	Reasonable

### Emu soap

	wt%
Palmitic acid	>55.0
Palm fatty acid Na	<25.0
Aqua	>10.0
EMU OIL	<5.0
Titanium oxide	<1.0
Sodium chloride	<1.0
Preservative	<1.0
Fragrance	Reasonable

## Material information

Product Name	INCI	CAS No.	Appearance (Summer)	Appearance (Winter)	Packing
EMU OIL	EMU OIL	158570-96-8	Liquid	Solid	1kg、18.3kg



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