

**Recipe: Coconut + Lemongrass**

Recipe Type: Solid Soap

Group: Tutorial Soaps

Last saved: 01 Oct, 2017

No. of bars: 10.4

Total Weight: 52.15 oz

Approx. Volume: 91.40 cu in

Recipe Cost: \$9.08

Cost per 5.0 oz bar \$0.87

Cost per 1 oz sample: \$0.17

**CONTENTS**

<b>OILS</b>	<b>Quantity</b>	<b>Weight in oz</b>	<b>%Oils</b>	<b>%Total</b>	<b>Cost</b>
1. Coconut	12 oz	12.00	33.3	22.9	0.98
2. Rice Bran	10 oz	10.00	27.8	19.1	1.02
3. Avocado	6 oz	6.00	16.7	11.4	0.90
4. Shea Butter	6 oz	6.00	16.7	11.4	1.13
5. Castor	2 oz	2.00	5.6	3.8	0.28

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 36.00 oz      100%      \$4.30
**LYE & WATER**
 NaOH needed:  
 (With 7% Lye discount)

4.89 oz      9.3      \$0.29

 Water Needed:  
 (With 33.0% Lye Solution strength)

4.94 oz (0.591 cups)      9.4      \$0.04

**ADDITIVES**

- |                                     | <b>Quantity</b> | <b>Weight in oz</b> | <b>%Total</b> | <b>Cost</b> |
|-------------------------------------|-----------------|---------------------|---------------|-------------|
| 1. Misc: Coconut Milk               | 5 oz            | 5.00 *              | 9.5           | 1.26        |
| 2. EO: Lemongrass Essential Oil     | 38 gr           | 1.34                | 2.6           | 1.39        |
| 3. EO: Ginger (Fresh) Essential Oil | 8 gr            | 0.28                | 0.5           | 1.79        |

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 6.62 oz      \$4.45

\* Additive used to adjust water quantity.

**PREDICTED SOAP QUALITIES**

Hardness: 5.8

Fluffy Lather: 5.2

Stable Lather: 5.6

Moisturizing: 6.3

**FATTY ACID COMPOSITION****Saturated:**

Caprylic (C8): 2.3 %

Capric (C10): 2.0 %

Lauric (C12): 16.0 %

Myristic (C14): 8.2 %

Palmitic (C16): 8.8 %

Stearic (C18): 8.6 %

**Unsaturated:**

Oleic (C18:1): 31.9 %

Linoleic (C18:2): 15.5 %

Linolenic (C18:3): 0.3 %

Ricinoleic (C18:4): 4.8 %

Continued...

## Ingredient List with INCI Codes

International Nomenclature of Cosmetic Ingredients (INCI) codes for recipe ingredients  
(sorted by quantity, largest first)

**Name [INCI code]**

Coconut [Cocos Nucifera (Coconut) Oil]

Rice Bran [Oryza Sativa (Rice) Bran Oil]

Avocado [Persea Gratissima (Avocado) Oil]

Shea Butter [Hydrogenated Butyrospermum Parkii (Shea Butter)]

Coconut Milk [Coconut Milk (Cocos Nucifera Extract)]

Water [Aqua]

Lye (NaOH) [Sodium Hydroxide]

Castor [Ricinus Communis (Castor) Seed Oil]

Lemongrass Essential Oil [Cymbopogon Schoenanthus (Lemongrass) Oil]

Ginger (Fresh) Essential Oil [Zingiber Officinale (Ginger) Root Oil]