

Cocoa Body Butter

Spiral Eyes Formulations #1

Basic Recipe | Cocoa Butter + Coconut | Olivem 1000 | Rich Whippable Texture

Document: Formulation Sheet	Product Type: O/W Body Butter
Batch Size: 100g (scale as needed)	Version: 1.0
Emulsifier: Olivem 1000 @ 6%	Preservative: Optiphen ND @ 1.0%
Target pH: 5.0 – 6.0	Texture: Rich — whippable

SECTION 1 — FINAL FORMULATION

PHASE A — Water Phase | Heat to 75°C

Ingredient	% w/w	Function
Distilled Water	65.30%	Solvent / Base

PHASE B — Humectant / Gel Phase | Pre-mix Xanthan into Glycerine

Ingredient	% w/w	Function
Glycerine (Vegetable)	7.50%	Humectant — attracts and retains moisture
Xanthan Gum	0.30%	Stabilizer / thickener — pre-disperse in glycerine to avoid lumps

PHASE C — Oil Phase | Heat to 80°C (Olivem 1000 needs 80°C to fully melt)

Ingredient	% w/w	Function
Olivem 1000 (Cetearyl Olivatate & Sorbitan Olivatate)	6.00%	Primary emulsifier — natural, PEG-free
Cocoa Butter	5.00%	Nourishment / barrier / natural cocoa scent
Coconut Oil	5.00%	Emollient / softening — complements cocoa butter
Caprylic/Capric Triglyceride (CCT)	5.00%	Light emollient — non-greasy feel, anti-soaping
Stearic Acid	1.50%	Body / thickener — supports Olivem stability

PHASE D — Cool Down | Add at 40°C or below

Ingredient	% w/w	Function
Optiphen ND	1.00%	Broad-spectrum preservative — paraben & formaldehyde free
Vitamin E Acetate	1.20%	Antioxidant — protects oils, extends shelf life
Fragrance (e.g. Vanilla)	0.30%	Scent
Citric Acid solution	qs	pH adjustment — target 5.0–6.0

Phase A	65.30%	Phase B	7.80%	Phase C	22.50%	Phase D	2.50%
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SECTION 2 — TARGET SPECIFICATIONS

Parameter	Target
pH	5.0 – 6.0
Viscosity	Thick — whippable / spreadable body butter
Appearance	Cream white to slight ivory (natural Cocoa Butter tint)
Skin Feel	Rich and nourishing — CCT keeps it from feeling greasy
Preservative	Optiphen ND @ 1.0% — paraben & formaldehyde free, broad-spectrum
Shelf Life	3–6 months in sealed jar, away from heat and sunlight

SECTION 3 — STEP BY STEP PROCEDURE

Step	Action	Temp	Instruction
1	Sanitize	Room Temp	Wipe all bowls, tools and jars with IPA 70%. Essential for product safety and shelf life.
2	Phase B Pre-mix	Room Temp	Pre-disperse Xanthan Gum into the Glycerine first, stirring into a smooth slurry. This prevents lumps when added to water.
3	Phase A + B	75°C	Heat Distilled Water to 75°C. Add the Glycerine/Xanthan slurry. Stir until fully smooth and slightly thickened. Hold at 75°C.
4	Phase C — Oil	80°C	In a separate vessel melt Olivem 1000, Cocoa Butter, Coconut Oil, CCT and Stearic Acid together. Heat to 80°C until completely clear and liquid. Olivem 1000 must reach 80°C to melt fully.
5	Combine	75–80°C	Pour Phase C into Phase A+B slowly with continuous high-shear mixing (stick blender). Blend 3–5 minutes until white and creamy. Do not stop mixing.
6	Cool Down	75→40°C	Stir gently while cooling naturally. The butter thickens as Olivem sets. Do not rush with ice — slow cooling reduces soaping.
7	Phase D	40°C	Add Optiphen ND, then Vitamin E Acetate, then Fragrance — one at a time, stirring gently after each.
8	pH Adjustment	35°C	Check pH with meter or strips. Target 5.0–6.0. Add Citric Acid solution drop by drop if needed. Stir and recheck.
9	Whip (Optional)	Room Temp	For a fluffy whipped body butter texture, whip with a mixer once fully cooled. Skip this step for a smooth rich lotion-butter.
10	Fill and Label	≤35°C	Fill into clean jars. Label with: product name, batch date, pH value, version number.

SECTION 4 — EQUIPMENT LIST

#	Equipment	Spec	Purpose
1	Main Mixing Vessel	1–2 L stainless steel or glass	Phase A+B and combining
2	Oil Phase Vessel	500 mL – 1 L heat-safe	Melting Phase C separately
3	Stick Blender (Immersion)	Hand-held 200W+	High-shear homogenization — required for Olivem
4	Hand / Stand Mixer	Standard	Whipping the finished butter (optional)
5	Hot Plate / Stove	Up to 200°C	Heating phases to 75–80°C
6	Digital Thermometer	0–150°C, ±0.5°C	Temperature monitoring for both phases
7	Digital Scale	±0.1g accuracy	Accurate weighing of all ingredients
8	pH Meter or pH Strips	Range 4–8	Checking final pH — target 5.0–6.0
9	Glass Beakers	50–500 mL, various	Pre-weighing ingredients
10	Stainless Steel Spatulas	Various sizes	Stirring, scraping, transferring
11	Pipette or Dropper	1–5 mL	Precise Citric Acid addition
12	IPA 70% Spray Bottle	500 mL	Sanitizing all equipment before use
13	Wide-Mouth Jars	As required	Final packaging — wide mouth for thick butter
14	PPE	Gloves + goggles	Basic safety throughout process

SECTION 5 — FORMULATOR NOTES

Olivem 1000 — Must Reach 80°C	Olivem 1000 melts at ~75°C. Always heat Phase C to 80°C to ensure complete melt. Incompletely melted Olivem causes grainy, unstable butter that cannot be corrected after combining.
Stearic Acid Role	Stearic Acid at 1.5% adds body and emulsion stability, working alongside Olivem 1000 to give the butter a thicker, more cushioned texture.
Soaping Management	Olivem 1000 can cause soaping (white streak on rub-in). CCT at 5% is the main anti-soaping helper here. Also cool slowly and avoid over-mixing. If soaping persists, add Polysorbate 80 at 0.5% to Phase C.
Xanthan Gum — Pre-disperse	Always pre-mix Xanthan Gum into the Glycerine before adding to water. Adding dry Xanthan directly to water causes lumps that are very hard to remove.
High-Shear Mixing Required	Use a stick blender or overhead high-shear mixer when combining phases. Gentle hand stirring will not create a stable Olivem emulsion.
Whipping for Body Butter Texture	For a true fluffy whipped body butter, whip the cooled product with a mixer. Without whipping it is a rich, thick lotion-butter. Both are stable.
Optiphen ND	Broad-spectrum, paraben and formaldehyde free. Add at or below 40°C. Effective across pH 4–8. Provides 3–6 months shelf life in sealed packaging.
Butter Options	Cocoa Butter can be swapped for Shea, Kokum or Mango Butter for a different skin feel — all work well in this base.
Optional Upgrades	Swap Cocoa Butter for Shea, Kokum or Mango Butter for a different skin feel. Add Honeyquat 1% in Phase B for extra conditioning. Add Propanediol 3% as a modern humectant boost.