Super Serum

This quick guide gives you everything you need at a glance when making the formula — tools, containers, ingredient lists, and step-by-step directions. Use it as your working page while you formulate. There's space to check off steps, record notes, and customize your batch if you enjoy experimenting.

For your first batch, you only need the Test Version (with Active Blend options) and the core directions — print those pages and skip the rest until you're ready to scale up or customize. The Full Formula, Minimalist Version, and Custom Blend tables can be printed later.

After printing, use the notes column to jot adjustments or observations directly onto the directions table — it's designed as your working surface while you formulate.

Difficulty: Moderate
Required Ingredients: 7
Optional Ingredients: 6
Prep Time: 30 minutes

⚠️ **IMPORTANT:** This quick guide is for formulation only. Before beginning, please **read the full description of the Super Serum** for detailed safety precautions, ingredient explanations, and usage instructions.

Suggested Container Options

Thickened Gel:

- 1 Amber Boston Round Glass Bottle with Black Treatment Pump (2 oz/59 mL)
- 2 Amber Boston Round Glass Bottles with Black Treatment Pumps (1 oz/29 mL each)

Unthickened Minimalist Version:

- 1 Natural HDPE Plastic Bottle with Black Disc Cap (2 oz/59 mL)

Suggested Tools & Equipment

- gloves (optional)
- spray bottle with 70% Isopropyl Alcohol
- large-capacity scale (5000 g × 0.01 g)
- milligram scale (100 g × 0.001 g)
- 1 glass beaker (~150 mL)
- 1 small beaker to aid pouring (optional)
- tiny glass or ceramic dishes
- stainless-steel lab spatulas
- stainless-steel spoons (optional)
- skewers or disposable pipettes (optional)
- wide soup bowl
- immersion blender or electric whisk
- non-slip silicone mat or damp paper towel
- 1 small flexible scraper
- calibrated pH meter
- medium beaker with Deionized Water
- Citric Acid Solution
  (see ***Making a Formula Work***)
- Baking Soda Solution
  (see ***Making a Formula Work***)
- 3M KCl Storage Solution for pH meter
- lint-free tissue
- small funnel (optional)
- sanitized, completely dry final container
- labels

Formulation Notes

[1] Substitute for Deionized Water: Chamomile, Rose, or Lavender Hydrosol, or Distilled Water. Hydrosols spoil quickly; buy only what you'll use and discard any unused portion. Do not use tap water, as it may contain minerals or microbes that can spoil your formula.

[2] Substitute for Sodium Phytate: Sodium Citrate or EDTA (cosmetic grade).

[3] Substitute for Sodium PCA: Sodium Lactate.

[4] Optional. Keep total actives at or below 7% to avoid destabilizing the serum. See below for suggestions. Introduce one active at a time in future batches and patch test. If omitted, increase water. Without actives, you will have a basic hydrating serum.

[5] Substitute for Euxyl PE 9010: A broad-spectrum preservative such as Liquid Germall Plus (used at 0.1–0.5%) or Optiphen. Both are effective in a wide range of products. If using a different preservative, always follow the supplier's recommended usage rate and pH requirements.

[6] Substitute for 1,3-Propanediol: Glycerin (heavier, stickier).

[7] There is no substitute for Sepimax Zen. Thickening the gel is required if actives are included, but is optional for the Minimalist Version.

[8] Optional. Certain essential oils add calming, purifying, or antioxidant effects. Use at 0.25–0.5% for eye-area safety; choose gentle options such as copaiba, chamomile, rose, or lavender, or omit if sensitive. See ***Essential Oils for Skin Care***.

[9] Mixed Tocopherols are only needed if an essential oil is used. Substitute for Mixed Tocopherols: Rosemary Extract (25% standardized) at 0.1–0.3%. The "25%" refers to the strength sold by suppliers, not the amount you use in the formula.

[10] Prepare a Citric Acid Solution (25% Citric Acid Powder with 75% Deionized Water). See ***Making a Formula Work***.

[11] If omitting Niacinamide, increase water.

[12] If omitting Panthenol, increase water.

[13] Substitute for Probacillus Revive: another water-soluble probiotic ferment at the supplier's recommended rate. If omitted, increase water.

[14] If omitting N-Acetyl Glucosamine, increase water.

[15] Substitute for Acetyl Hexapeptide-8 (Argireline): Palmitoyl Tripeptide-5 (for visible firmness), Acetyl Heptapeptide-4 (for redness). If omitting the peptide complex, increase water.

[16] Substitute for Saffron Stem Cells: Rice Protein, Hydrolyzed Oat Protein. If omitted, increase water.

TEST FORMULA

Makes 20 g Super Serum

This version is designed for testing. Making a small batch first lets you check texture, scent, and skin feel before committing to a larger amount. Once you're happy with the results, you can make the larger batch for general use.

Phase	Ingredients	Function	%	Grams
A	**Deionized Water**[1]	Hydrates	81.40%	16.28
A	**Sodium Phytate**[2]	Boosts stability	0.20%	0.04
A	**Sodium PCA**[3]	Hydrates	1.00%	0.20
A	Active Blend[4]	Targets concerns	7.00%	1.40
A	**Euxyl PE 9010**[5]	Preserves the formula	1.00%	0.20
A	**1,3-Propanediol**[6]	Boosts hydration	7.00%	1.40
B	**Sepimax Zen**[7]	Thickens, mixes oil & water	1.00%	0.20
C	Essential Oil[8]	Adds scent and support	0.50%	0.10
C	Mixed Tocopherols[9]	Keeps oils fresh	0.50%	0.10
D	**Citric Acid Solution**[10]	Balances pH to 5.2-5.5	0.40%	0.08
			100.00%	20.00

Suggested Actives for a 20g batch

Important! Choose only one blend. Do not combine blends.

The Restorer: Barrier repair blend (Max 7%):

Ingredients	Function	%	Grams
Niacinamide[11]	Improves tone & comfort	3.00%	0.60
dl-Panthenol[12]	Hydrates and soothes	2.00%	0.40
Probacillus Revive[13]	Supports skin barrier	2.00%	0.40

The Clarifier: Acne + Spot Repair Blend (Max 7%):

Ingredients	Function	%	Grams
Niacinamide[11]	Improves tone & comfort	3.50%	0.70
N-Acetyl Glucosamine[14]	Improves uneven tone	2.00%	0.40
Probacillus Revive[13]	Supports skin barrier	1.50%	0.30

The Lifter: Line-Softening + Firming Blend (Max 7%):

Ingredients	Function	%	Grams
Acetyl Hexapeptide-8 (Argireline)[15]	Softens lines	3.50%	0.70
Probacillus Revive[13]	Supports skin barrier	1.50%	0.30
Saffron Stem Cells[16]	Improves firmness	2.00%	0.40

FULL FORMULA (Includes Optional Ingredients)

Makes 65 g Super Serum / Fills one 2 fl oz (59 mL) bottle

Phase	Ingredients	Function	%	Grams
A	**Deionized Water**[1]	Hydrates	81.40%	52.91
A	**Sodium Phytate**[2]	Boosts stability	0.20%	0.13
A	**Sodium PCA**[3]	Hydrates	1.00%	0.65
A	Active Blend[4]	Targets concerns	7.00%	4.55
A	**Euxyl PE 9010**[5]	Preserves the formula	1.00%	0.65
A	**1,3-Propanediol**[6]	Boosts hydration	7.00%	4.55
B	**Sepimax Zen**[7]	Thickens, mixes oil & water	1.00%	0.65
C	Essential Oil[8]	Adds scent and support	0.50%	0.33
C	Mixed Tocopherols[9]	Keeps oils fresh	0.50%	0.33
D	**Citric Acid Solution**[10]	Balances pH to 5.2-5.5	0.40%	0.26
			100.00%	65.00

Suggested Actives for a 65 g batch

Important! Choose only one blend. Do not combine blends.

The Restorer: Barrier repair blend (Max 7%):

Ingredients	Function	%	Grams
Niacinamide[11]	Improves tone & comfort	3.00%	1.95
dl-Panthenol[12]	Hydrates and soothes	2.00%	1.30
Probacillus Revive[13]	Supports skin barrier	2.00%	1.30

The Clarifier: Acne + Spot Repair Blend (Max 7%):

Ingredients	Function	%	Grams
Niacinamide[11]	Improves tone & comfort	3.50%	2.28
N-Acetyl Glucosamine[14]	Improves uneven tone	2.00%	1.30
Probacillus Revive[13]	Supports skin barrier	1.50%	0.98

The Lifter: Line-Softening + Firming Blend (Max 7%):

Ingredients	Function	%	Grams
Acetyl Hexapeptide-8 (Argireline)[15]	Softens lines	3.50%	2.28
Probacillus Revive[13]	Supports skin barrier	1.50%	0.98
Saffron Stem Cells[16]	Improves firmness	2.00%	1.30

MINIMALIST FORMULA (Required Ingredients Only)

Makes 65 g Super Serum / Fills one 2 fl oz (59 mL) bottle

This version is designed for those who want weightless, liquid hydration without the "film" of a traditional gel. It offers soft, comfortable moisture that works beautifully for sensitive skin, teens, or anyone needing a basic, no-frills option. While it doesn't provide the targeted treatment of the Barrier, Acne, or Wrinkle blends, it is an excellent "makeup-safe" base. Because it is completely water-based and contains no thickening gums, it sinks in instantly with very low risk of pilling under foundation. Use this as a reliable “reset” whenever your skin needs a break from active ingredients or as a hydrating layer throughout the day.

Phase	Ingredients	Function	%	Grams
A	**Deionized Water**[1]	Hydrates	90.44%	58.79
A	**Sodium Phytate**[2]	Boosts stability	0.20%	0.13
A	**Sodium PCA**[3]	Hydrates	1.00%	0.65
A	**Euxyl PE 9010**[6]	Preserves the formula	1.00%	0.65
A	**1,3-Propanediol**[4]	Boosts hydration	7.00%	4.55
D	**Citric Acid Solution**[11]	Balances pH to 5.2-5.5	0.36%	0.23
			100.00%	65.00

How to Use the Custom Blend Table

This table is provided to help you customize your blend. Only fill it out if you enjoy experimenting and feel comfortable working with percentages. The full formula above is already balanced and ready to use.

You may choose any batch size you like. Percentages always stay the same; only the grams change. Enter the percentage you want for each ingredient and adjust the values until your total reaches 100%. Then calculate the grams so they add up to your chosen batch size. Add the % column to ensure it equals 100%, and add the grams column to ensure it equals your batch size. Items shown in bold are required components of the formula.

Some percentages are already filled in for you because these ingredients must stay at fixed levels for safety, stability, or performance. Only adjust the blank cells.

Examples of the math:

- If you choose a 50 g batch and an ingredient is 7%, multiply: 50×0.07=3.5 g
- If you choose a 200 g batch and an ingredient is 1%, multiply: 200×0.01=2 g
- If you choose a 112 g batch and an ingredient is 0.5%, multiply: 112×0.005=0.56 g

MY CUSTOM BLEND

Super Serum

Phase	Ingredients	Function	%	Grams
A	**Deionized Water[1] (remainder)**	Hydrates		
A	**Sodium Phytate[2]**	Boosts stability	0.20%	
A	**Sodium PCA[3] (0.5-1.5%)**	Hydrates		
A	Active Blend[4] (7% Max) (See below)	Targets concerns		
A	**Euxyl PE 9010[5]**	Preserves the formula	1.00%	
A	**1,3-Propanediol[6] (7% Max)**	Boosts hydration		
B	**Sepimax Zen[7] (0.5-1.2%)**	Thickens, mixes oil & water		
C	Essential Oil[8] (Max 0.5% Eyes,1% Face, 2% Body)	Adds scent and support		
C	Mixed Tocopherols[9] (0.4-0.5%)	Keeps oils fresh		
D	**Citric Acid Solution[10] (as needed)**	Balances pH to 5.2-5.5		
			100.00%	

Active Blends in MY CUSTOM BLEND

Important! Choose only one blend. Do not combine blends.

The Restorer: Barrier repair blend (Max 7%):

Ingredients	Function	%	Grams
Niacinamide[11] (Max 5%)	Improves tone & comfort		
dl-Panthenol[12] (Max 2%)	Hydrates and soothes		
Probacillus Revive[13] (Max 2%)	Supports skin barrier		

The Clarifier: Acne + Spot Repair Blend (Max 7%):

Ingredients	Function	%	Grams
Niacinamide[11] (Max 5%)	Improves tone & comfort		
N-Acetyl Glucosamine[14] (Max 4%)	Improves uneven tone		
Probacillus Revive[13] (Max 2%)	Supports skin barrier		

The Lifter: Line-Softening + Firming Blend (Max 7%):

Ingredients	Function	%	Grams
Acetyl Hexapeptide-8 (Argireline)[15]	Softens lines		
Probacillus Revive[13] (Max 2%)	Supports skin barrier		
Saffron Stem Cells[16] (Max 2%)	Improves firmness		

Date:

Formulation Method	Notes	✔
Prepare your workspace and a sanitized, completely dry container. Wash and dry your hands or put on gloves. Spray all tools and equipment with 70% Isopropyl Alcohol and let them air-dry before beginning.		
Phase A: Blend Water-based Ingredients		
1. Place a **clean beaker** that holds at least twice the amount of product you plan to make on the large-capacity scale.		
2. **Press Tare** to show 0.00 g. Use a small beaker to slowly pour the **Deionized Water** into the beaker until you reach the required weight. Do not use tap water!		
3. Place a clean **tiny dish** on the milligram scale and **press Tare** to show 0.000 grams.		
4. Use the flat end of a spatula to measure **Sodium Phytate** powder into the dish to reach the target weight. **Transfer** into the beaker.		
5. **Remove** the beaker from the scale. **Stir** with a lab spatula or **whisk** to completely dissolve the powder.		
6. **Return the beaker to the scale. Press Tare.** Use a small spoon, lab spatula, or pipette to slowly drizzle **Sodium PCA** into the beaker to reach the target weight. **Stir** to combine.		
7. Optional. **Press Tare**. Use a small spoon, lab spatula, or pipette to add your chosen water-soluble **Actives**, one at a time, into the beaker to reach the target weight.		
8. **Stir** with a whisk or lab spatula until any powders are dissolved and the mixture is uniform.		
9. **Press Tare**. Use a small spoon, lab spatula, or pipette to slowly drizzle Euxyl PE 9010 into the beaker to reach the target weight. Measure your preservative carefully—it keeps your products safe to use.		
10. **Press Tare.** Use a small spoon, lab spatula, or pipette to add **1,3-Propanediol** to the beaker to reach the target weight.		
11. **Stir** to combine. **If making the Minimalist Version, proceed to Phase D: Adjust pH. Otherwise, continue with Phase B: Form a Gel.**		

Formulation Method	Notes	✔
Phase B: Form a Gel		
1. **Prepare a wide vessel. Pour the entire Phase A mixture** into a shallow soup bowl or small plate with a rim. A wide surface area helps the powder hydrate evenly.		
2. Return the **tiny dish** to the milligram scale.		
3. **Press Tare**. Use the flat end of a spatula to slowly sprinkle **Sepimax Zen** powder into the dish to reach the target weight, breaking up any clumps.		
4. **Dust the Sepimax Zen evenly over the Phase A surface:** Hold the spatula close to the surface and gently sprinkle the Zen across the entire top of the water mixture. Avoid creating piles or mounds. A small sieve is optional if you want extra control. Think of it like dusting powdered sugar over a cake—even, light, and wide. **Do not stir.**		
5. **Wait 15 minutes** to allow full hydration and swelling. A timer can be helpful.		
6. After hydration, use a flexible scraper to **return the gel to the beaker. Stir gently** until the mixture is smooth and uniform.		
7. **If you see "fish eyes"**—tiny jelly-like clumps—place the beaker on a **non-slip surface** and **pulse** with an immersion blender or electric whisk for 10–20 seconds.		
Phase C: Post-gel Additions		
1. Optional. **Return the main beaker to the scale and press Tare.** Use a small spoon, skewer, or a disposable pipette to add the **Essential Oil** drop by drop to the beaker to reach the target weight. Let the scale stabilize after each drop. Essential oils may temporarily thin the gel; it will thicken again as the Zen traps the droplets. Your essential oil choice may tint the serum. If your bottle has a dropper insert, remove it before measuring (see ***Making a Formula Work***).		
2. Optional. **Press Tare**. Use a small spoon, lab spatula, skewer, or pipette to add **Mixed Tocopherols** drop by drop into the beaker to reach the target weight.		
3. **Stir** gently but thoroughly. The gel will change from crystal clear to a milky or cloudy appearance as the Sepimax Zen captures the oil droplets. The serum may thicken slightly over the first 24 hours as the gel continues to set.		

Formulation Method	Notes	✔
Phase D: Adjust pH (Target pH: 5.2–5.5)		
1. Ensure your **Citric Acid Solution** and **Baking Soda Solution** are ready.		
2. Prepare a **beaker of Deionized Water** for rinsing the probe.		
3. **Rinse** the pH probe very well with Deionized Water to remove the storage solution.		
4. **Measure pH:** Gently **shake** off excess water and **touch** the outside of the plastic housing to a lint-free tissue. **Submerge** the probe tip fully into the middle of the beaker, then **swirl** gently. **Wait** for the reading to stabilize (15-30 seconds), then **record the pH.**		
5. **Between subsequent readings,** after the serum has touched the probe, gently **wipe** the probe with a paper towel, then **rest it in Deionized Water for no more than 2 minutes while adding Citric Acid or stirring.**		
6. **Return the beaker to the scale and press Tare. Slowly add the Citric Acid Solution.** Begin by adding about half of the estimated Citric Acid Solution from your formula table. This estimate is approximate because your active blend will influence how much Citric Acid Solution you ultimately need. When you get close to your target range, add the Citric Acid Solution one or two drops at a time (1 drop of solution is approximately 0.04-0.05 g).		
7. Immediately **stir** for 45 seconds.		
8. **Repeat** pH adjustment steps 4–7 as needed to reach the target pH of 5.2–5.5.		
9. **Fix**. If you go below the target, use the Baking Soda Solution, a drop at a time, to gently raise the pH. If you must use Baking Soda to raise the pH, add it in tiny dilutions and be prepared for the serum to become thinner.		
10. **Rest for at least 2 minutes, then test to confirm** the pH level is steady.		
11. **Record** how much Citric Acid Solution you used. This serves as your reference for future batches, making the process faster and more predictable.		
12. **Wipe** and **rinse** the pH probe very well with Deionized Water and **store** it in 3M KCl storage solution.		

Package	Notes	✔
1. Use a small funnel to carefully **pour** the serum into a clean, completely dry bottle. Use the pump tube or a skewer to coax the serum into the bottle.		
2. **Wipe** the rim, then cap tightly.		
3. **Label** the container(s) with the product name and a 6-month expiration date.		
4. **Store** in a cool, dark place away from moisture and sunlight.		

Cleanup	✔
Tools	
1. Immediately after making the product, **wipe down tools** with a clean, dry paper towel.	
2. **Rinse all tools** under warm running water to loosen residue.	
3. **Wash with hot, soapy water** using a soft sponge or bottle brush.	
4. For stubborn residue, **soak** tools in warm water with dish soap for 10–15 minutes before scrubbing.	
5. **Sanitize tools** in a dishwasher if they are dishwasher-safe.	
Workspace	
1. **Wipe down counters** and scales with a damp cloth.	
2. **Sanitize surfaces** with 70% isopropyl alcohol (spray or wipes), then allow to air-dry.	
3. **Store** clean tools in a covered container or drawer to prevent dust and contamination.	