Liquid Hyaluronic Acid Recipe

Condensed and edited from PureBulk.com website and from correspondence with PureBulk representatives by Keith Brewster (kbrews@cox.net)
Original source: http://purebulk.com/hyaluronic-acid-na-hyaluronate

Revised November 30, 2015

Ingredients:

12 fl. oz. Distilled Water

6 grams (1.5 teaspoon) Ascorbic Acid (Vitamin C)

3.56 grams (~2.5 teaspoon) Hyaluronic Acid Powder

All supplies available from PureBulk.com, Roseville, Oregon, USA.

Also needed: kitchen liquids thermometer, for example: CDN DTQ450X Thermometer (available from Amazon.com, ChefTools.com, etc), water bottle with good seal such as a Blender Bottle, measuring cup, gram scale or measuring spoons.

Directions:

1. Clean and sanitize water bottle, thermometer and measuring tools.
2. Measure 12 fluid ounces distilled water using Blender Bottle gauge or measuring cup and pour into a plastic or glass water bottle.
3. Add and dissolve approximately 6 grams (1.5 Teaspoons) Ascorbic Acid to distilled water at room temperature.
4. After the ascorbic acid is completely dissolved, chill the liquid to 39°F (4°C) -- takes about 4 hours in the fridge, or 30-40 minutes in the freezer (do not freeze, check temperature regularly after 25-30 min).
5. Measure 3.56 grams Hyaluronic Acid powder (~2 Teaspoons).
6. Add the Hyaluronic Acid powder into the water bottle on top of the cold water.
7. Seal the bottle lid tightly and shake the bottle a few times. The Hyaluronic Acid powder will not immediately dissolve, but will mostly clump together in floating white masses. This is normal.
8. Place the bottle with the Hyaluronic Acid powder and cold water in the refrigerator.
9. After 4 to 8 hours you will notice that the Hyaluronic Acid clumps are turning clear and dispersing into solution; you can shake to hasten this. After about 12 hours the Hyaluronic Acid will be completely dissolved forming a thickened and

gelatinous liquid with a viscosity similar to pancake syrup. Increase HA to for a thicker viscosity, if desired; patients have used up to 4 Teaspoons.

Yield: When prepared using 3.56 grams of HA in 12 oz water, this preserved HA solution will net the following nutritional supplements per level tablespoon: Hyaluronic Acid 150mg, Ascorbic Acid 250mg.

No Preservatives Option: The ascorbic acid (Vitamin C) makes the HA solution taste a bit tart, sort of like lemon juice. If you don't like the taste, the solution can be mixed without the ascorbic acid. The ascorbic acid is a preservative, so without it the solution will keep in the refrigerator for about 3-4 days. Reduce the amount prepared to the amount you will use in 3-4 days and be especially careful about sterilization and sterile handling.

Note: As of 2014, PureBulk is offering a vegan form of HA that is obtained via a fermentation process rather than from animal sources (e.g., rooster combs). Either form will work with the recipe. Pricing is the same.

Example Ordering Strategies from PureBulk.com (Prices as of April 2014)

Large Order

Yield: 16 12-oz batches, approx cost per batch $5.30

Ascorbic Acid (Vitamin C) 100g (VITC100100)	**$5.50**
Hyaluronic Acid (Na Hyaluronate) 50g (HYALU00050)	**$73.50**
Sub-Total:	$78.50
Volumetric Packing (Priority):	$5.60
Total:	$84.60

Medium Order

Yield: 8 12-oz batches, approx cost per batch: $6.50
There will be excess Vitamin C covering your next 8 batches.

Ascorbic Acid (Vitamin C) 100g (VITC100100)	**$5.50**
Hyaluronic Acid (Na Hyaluronate) 25g (HYALU00025)	**$40.75**
Sub-Total:	$46.25
Volumetric Packing (Priority):	$5.60
Total:	$51.85

Small Order

Yield: 3 12-oz batches, approx cost per batch: $10
There will be excess Vitamin C covering your next 13 batches.

Ascorbic Acid (Vitamin C) 100g (VITC100100)	**$5.50**	
Hyaluronic Acid (Na Hyaluronate) 10g (HYALU00010)	**$19.00**	

	Sub-Total:	$24.50
	Volumetric Packing (Priority):	$5.60
	Total:	$30.10