

DIRECT SPHERIFICATION PROTOCOL

Materials

- Sodium alginate
- Calcium Chloride
- Juice
- Tall containers
- Slotted or Spherification spoons
- Droppers/pipettes
- Shallow containers
- Immersion blender

Sodium Alginate juice solution (best if made a bit in advance):

- 1. In a tall container (pitcher or beaker that is much taller than the amount of juice), add 1 cup juice and ¼ ½ tsp sodium alginate powder
- 2. Mix using immersion blender
- 3. Let sit so the air bubbles can disperse

Calcium Chloride Bath (can be made in advance, not required):

- 1. In a tall container (pitcher or beaker that is much taller than amount of water), add 2 cups distilled water and 1 tsp calcium chloride
- 2. Mix using immersion blender

Procedure for producing beads

- 1. 2 two shallow containers, 1 with calcium chloride bath, 1 with distilled water
- 2. Using a dropper, drop alginate juice solution in calcium chloride container careful not to touch the tip of the dropper to the bath or it will get clogged
- 3. Use a spoon to gently swirl
- 4. Carefully remove the boba with the strainer spoon
- 5. Place boba into distilled water bath, gently swirl
- 6. Using strainer spoon, remove boba and taste!



Links to materials (any brand will work)

- Sodium alginate (https://www.amazon.com/Alginate-Molecular-Gastronomy-Non-GMO-Certified/dp/B00BLPNHLW/ref=sr 1 6?crid=PED01U5RJ5TQ&keywords=sodium+alginate&qid=16841825 41&sprefix=sodium+alginate%2Caps%2C98&sr=8-6)
- Calcium chloride https://www.amazon.com/Calcium-Chloride-Molecular-Gastronomy-Certified/dp/B00BLPNJLK?crid=ULCX8H05T0NZ&dib=eyJ2ljoiMSJ9.pf8Rm5iLkZe2bLOXe9gVj1mTQjxXZvX7t KFKl0HLhVySG1Tm68tmfxGW9koZoh-e099G6nnlxOoh400oiaMSPyVOc5yh7Wxmyn sixD oNdW9iPslD5lW5SbUh0lqtyv7UTeL5jFlidB61NytsvCW Sr3YzjLWllxsRytr8Np7NRl9b87wBRnf6gJEecddy6HRxXLFu8UpS6kqj8ERl0n24VMcZDGFr2lYP9hsD-sN74nRnOGQ4in onmpcVqU35cugcYjYSNQKj7qLQcqblFC1WbnzsQjNTzoEAX 0cCe1Tb1z51V5-xFbXuHNUkrPRID MzWnLA3ja8sL H1fYLRlX3zjKMpkRClwVKlES7ePqK7g6htS0tk0F5US9tSFKPmeT8YKDfDluWvUoJVEX1XlxerwiQHJln74l7jXwy2eVZKqH3Osd4DULDcannGOKe.gDcAhlWXhoHknANMicf9aRcIE7ChCpd
 - nd7yfB9JD6c&dib tag=se&keywords=calcium+chloride&qid=1741207784&sprefix=calcium+chloride%2Caps%2C112&sr=8-6
- Spherification spoons (https://www.amazon.com/DEAYOU-Perforated-Spherification-Mixologist-Multi-Color/dp/B0BFKB5QKZ/ref=sr 1 10?crid=1RXLD7D62PIYK&keywords=spherification+spoon&qid=168418
 2765&sprefix=spherification+spoon%2Caps%2C90&sr=8-10)
- Droppers/pipettes (https://www.amazon.com/Disposable-Transfer-Calibrated-Essential-Laboratory/dp/B08CMPRNC3/ref=sr 1 9?crid=3NP13MKUNVUU3&keywords=transfer+pipettes&qid=168
 4182867&sprefix=transfer+pipettes%2Caps%2C112&sr=8-9)
- Shallow containers (https://www.amazon.com/Tosnail-Pack-Plastic-Storage-Containers/dp/B07T2HQYK5/ref=sr 1 16?crid=3A7V51ZUD9SNV&keywords=clear+plastic+food+containers%2Caps%2C97&sr=8-16)
- Immersion blender (https://www.amazon.com/Bonsenkitchen-Handheld-Electric-Immersion-Stainless/dp/B09SH9XH37/ref=sr 1 11?crid=3A021FNXKMDGI&keywords=immersion+blender&qid=1684 183161&sprefix=immersion+blender%2Caps%2C102&sr=8-11)