CLAIMS

1. A method of separating disodium 5'-inosinate, the method comprising: culturing a microorganism that produces 5'-inosinic acid;

adjusting the pH of a culture broth of the microorganism to be from 7.4 to 8.0;

concentrating the pH-adjusted culture broth to form disodium 5'-inosinate crystals;

separating disodium 5'-inosinate crystals from the culture broth containing the disodium 5'-inosinate crystals; and

washing the crystals by contacting the disodium 5'-inosinate crystals with a hydrophilic organic solvent, wherein the concentration of the hydrophilic organic solvent is 50%(v/v) to 70%(v/v).

2. The method of claim 1, wherein the culture broth of the microorganism comprises 5 wt% to 20 wt% of 5'-inosinic acid based on the total weight of the culture broth.

3. The method of claim 1, wherein the microorganism is a bacterium of the genus *Corynebacterium* or genus *Escherichia*.

4. The method of claim 1, wherein the concentrating is to perform concentrating under reduced pressure.

5. The method of claim 1, wherein the concentrating is performed until the concentration of 5'-inosinic acid in the culture broth becomes 400 g/L to 550 g/L.

6. The method of claim 1, further comprising concentrating the culture broth before the adjusting the pH.

7. The method of claim 6, wherein the concentrating the culture broth before the adjusting the pH is performed until the concentration of 5'-inosinic acid in the culture broth becomes 150 g/L to 360 g/L.

8. The method of claim 6, wherein the concentrating the culture broth before the adjusting the pH is to perform concentrating under reduced pressure.

9. The method of claim 1, comprising cooling formed crystals after the concentrating.

10. The method of claim 9, wherein the cooling is performed at a temperature of 25 °C to 30 °C.

11. The method of claim 1, wherein the hydrophilic organic solvent is a C1-C5 alcohol.

12. The method of claim 11, wherein the alcohol is at least one selected from the group consisting of methanol, ethanol, propanol, and isopropanol.

13. The method of claim 1, wherein the hydrophilic organic solvent is ethanol.

14. The method of claim 1, wherein the volume of the hydrophilic organic solvent is 20 % to 50 % of the total volume of a sample including formed crystals.

15. The method of claim 1, further comprising contacting washed crystals with activated carbon in an aqueous solvent to remove a coloring material.