CLAIMS

1. A method for increasing a proportion of CD56 positive cells in skeletal muscle tissue, comprising

soaking a sampled skeletal muscle tissue in a preservation solution comprising Hanks' balanced salt solution and glucose, with a total glucose concentration of 2.6mg/mL;

wherein the soaking step comprises soaking in the preservation solution for 12 to 140 hours.

2. The method according to claim 1, wherein the soaking step comprises soaking the skeletal muscle tissue until the proportion of non-CD56 positive cells in the sampled skeletal muscle tissue is reduced to 20% or less.

3. The method according to claim 1 or 2, wherein the soaking step comprises soaking the skeletal muscle tissue in the preservation solution until the degree of swelling of the skeletal muscle tissue becomes 1.2 or more.

4. A method for producing a cell population with a high proportion of the number of CD56 positive cells, comprising

the method according to any one of claims 1 to 3.

5. The method according to claim 4, further comprising

separating the cell population from the skeletal muscle tissue.