WHAT IS CLAIMED IS:

1. A wet-preserved tissue composition comprising:

nerve tissue; and

an aqueous solution consisting of:

between about 0.1% to about 50% by volume dimethyl sulfoxide (DMSO); and

one or more soluble salts, wherein the one or more soluble salts of the aqueous solution include one or more of:

sodium chloride,

potassium chloride,

calcium chloride,

magnesium chloride, and/or

sodium bicarbonate.

2. The wet-preserved tissue composition according to claim 1, wherein the percentage of DMSO by volume of the aqueous solution is between about 2% to about 15%.

3. The wet-preserved tissue composition according to claim 1, wherein the percentage of DMSO by volume of the aqueous solution is between about 2% to about 50%.

4. The wet-preserved tissue composition according to claim 1, wherein the percentage of DMSO by volume of the aqueous solution is between about 5% to about 50%.

5. The wet-preserved tissue composition according to claim 1, wherein the percentage of DMSO by volume of the aqueous solution is between about 10% to about 50%.

6. The wet-preserved tissue composition according to claim 1, wherein the one or more soluble salts of the aqueous solution provide one or more of:

between about 43 mM to about 2.6 M sodium cation,

between about 2.7 mM to about 5.4 mM potassium cation,

between about 0.9 mM to about 2.7 mM calcium~~,~~ cation, and/or

between about 0.945 mM to about 1.2 mM magnesium cation.

7. The wet-preserved tissue composition according to claim 1, wherein the one or more soluble salts of the aqueous solution is between about 2.5 g/L to about 150 g/L sodium chloride.

8. The wet-preserved tissue composition according to claim 1, wherein the one or more soluble salts of the aqueous solution is between about 0.2 g/L to about 0.4 g/L potassium chloride.

9. The wet-preserved tissue composition according to claim 1, wherein the one or more soluble salts of the aqueous solution is between about 0.1 g/L to about 0.3 g/L calcium chloride.

10. The wet-preserved tissue composition according to claim 1, wherein the one or more soluble salts of the aqueous solution is between about 0.09 g/L to about 0.11 g/L magnesium chloride.

11. The wet-preserved tissue composition according to claim 1, wherein the one or more soluble salts of the aqueous solution is between about 0.2 g/L to about 0.8 g/L sodium bicarbonate.

12. The wet-preserved tissue composition according to claim 1, wherein the one or more soluble salts of the aqueous solution include one or more of:

between about 2.5 g/L to about 12 g/L sodium chloride,

about 0.3 g/L potassium chloride,

about 0.2 g/L calcium chloride,

about 0.1 g/L magnesium chloride, or

about 0.4 g/L sodium bicarbonate.

13. A method of preserving nerve tissue comprising:

preparing nerve tissue; and

storing the nerve tissue in an aqueous solution consisting of:

between about 0.1% to about 50% by volume dimethyl sulfoxide (DMSO); and

one or more soluble salts, wherein the one or more soluble salts of the aqueous solution include one or more of:

sodium chloride,

potassium chloride,

calcium chloride,

magnesium chloride, and/or

sodium bicarbonate.

14. The method according to claim 13, wherein the nerve tissue is one of human nerve tissue or animal nerve tissue.

15. The method according to claim 13, wherein preparing the nerve tissue includes decellularizing the tissue.

16. The method according to claim 13, wherein the percentage of DMSO by volume of the aqueous solution is between about 2% to about 15%.

17. The method according to claim 13, wherein the percentage of DMSO by volume of the aqueous solution is between about 2% to about 50%.

18. The method according to claim 13, wherein the percentage of DMSO by volume of the aqueous solution is between about 5% to about 50%.

19. method according to claim 13, wherein the percentage of DMSO by volume of the aqueous solution is between about 10% and about 50%.

20. The method according to claim 13, wherein the one or more soluble salts of the aqueous solution provide one or more of:

between about 43 mM to about 2.6 M sodium cation,

between about 2.7 mM to about 5.4 mM potassium cation,

between about 0.9 mM to about 2.7 mM calcium cation, and/or

between about 0.945 mM to about 1.2 mM magnesium cation.

21. The method according to claim 13, wherein the one or more soluble salts of the aqueous solution is between about 2.5 g/L to about 150 g/L sodium chloride.

22. The method according to claim 13, wherein the one or more soluble salts of the aqueous solution is between about 0.2 g/L to about 0.4 g/L potassium chloride.

23. The method according to claim 13, wherein the one or more soluble salts of the aqueous solution is between about 0.1 g/L to about 0.3 g/L calcium chloride.

24. The method according to claim 13, wherein the one or more soluble salts of the aqueous solution is between about 0.09 g/L to about 0.11 g/L magnesium chloride.

25. The method according to claim 13, wherein the one or more soluble salts of the aqueous solution is between about 0.2 g/L to about 0.8 g/L sodium bicarbonate.

26. The method according to claim 13, wherein the aqueous solution consists of between about 2% to about 15% DMSO by volume, and wherein the one or more soluble salts of the aqueous solution provide one or more of:

between about 43 mM to about 2.6 M sodium cation,

between about 2.7 mM to about 5.4 mM potassium cation,

between about 0.9 mM to about 2.7 mM calcium cation, and/or

between about 0.945 mM to about 1.2 mM magnesium cation.