15. Cells with neuron functions as prepared by the method of any one of claims 1-14, wherein the cells are nerve cells expressing neuron specific enolase (NSE) and neurofilament protein-M (NF-M) , and secreting neurotrophic factor (NT) and brain derived neurotrophic factor (BDNF).

16. The cells according to claim 15, wherein the cells are nerve cells expressing neuron specific enolase (NSE), glial fibrillary acidic protein (GFAP) , growth related protein factor (GAP-43) and neurofilament protein-M (NF-M) , and secreting neurotrophic factor-3 (NT-3), neurotrophic factor-4 (NT-4) and brain derived neurotrophic factor (BDNF) .

17. Use of the method in any one of claims 1-14 or the cells with neuron functions in any one of claims 21-22 in the preparation of medicines for treating injuries with the loss of neuron function.

18. The use according to claim 17, wherein the cells with neuron functions are nerve cells expressing neuron specific enolase (NSE), neurofilament protein-M (NF-M), and secreting neurotrophic factor (NT) and brain derived neurotrophic factor(BDNF).

19. The use according to claim 17, wherein the injuries with the loss of neuron function are Parkinson's disease and spinal cord injury.

20. Use of the method in any one of claims 1-14 or the cells with neuron functions in any one of claims 15-16 in the manufacture of a medicament for treatment of injuries with the loss of neuron function.

21. The use according to claim 26, wherein the injuries are Parkinson's disease and spinal cord injury.

22. The cells according to claim 15 or 16 for use in treating injuries with the loss of neuron function by transplanting the cells into an injury site of a patient with neurological diseases, and the neurological diseases includes, Parkinson's disease and spinal cord injury.

23. The cells for use according to claim 22, wherein the cells with neuron functions express neuron specific enolase (NSE) and neurofilament protein-M (NF-M), and secret neurotrophic factor (NT) and brain derived neurotrophic factor(BDNF).

15. Cells with neuron functions as prepared by the method of any one of claims 1-14, wherein the cells are nerve cells expressing neuron specific enolase (NSE) and neurofilament protein-M (NF-M) , and secreting neurotrophic factor (NT) and brain derived neurotrophic factor (BDNF).

16. The cells according to claim 15, wherein the cells are nerve cells expressing neuron specific enolase (NSE), glial fibrillary acidic protein (GFAP) , growth related protein factor (GAP-43) and neurofilament protein-M (NF-M) , and secreting neurotrophic factor-3 (NT-3), neurotrophic factor-4 (NT-4) and brain derived neurotrophic factor (BDNF) .

17. Use of the method in any one of claims 1-14 or the cells with neuron functions in any one of claims 15-16 in the preparation of medicines for treating injuries with the loss of neuron function.

18. The use according to claim 17, wherein the cells with neuron functions are nerve cells expressing neuron specific enolase (NSE), neurofilament protein-M (NF-M), and secreting neurotrophic factor (NT) and brain derived neurotrophic factor(BDNF).

19. The use according to claim 17, wherein the injuries with the loss of neuron function are Parkinson's disease and spinal cord injury.

20. Use of the method in any one of claims 1-14 or the cells with neuron functions in any one of claims 15-16 in the manufacture of a medicament for treatment of injuries with the loss of neuron function.

21. The use according to claim 20, wherein the injuries are Parkinson's disease and spinal cord injury.

22. The cells according to claim 15 or 16 for use in treating injuries with the loss of neuron function by transplanting the cells into an injury site of a patient with neurological diseases, and the neurological diseases includes, Parkinson's disease and spinal cord injury.

23. The cells for use according to claim 22, wherein the cells with neuron functions express neuron specific enolase (NSE) and neurofilament protein-M (NF-M), and secret neurotrophic factor (NT) and brain derived neurotrophic factor(BDNF).