## CLAIMS

**1.** Use of a composition in the manufacture of a medicament for the treatment of a central nervous system injury in a subject, the composition comprising an active agent, said active agent containing the amino acids leucine, isoleucine, valine, threonine, lysine and the carboxylic acids citric acid, succinic acid, malic acid.

**2.** The use according to claim 1, wherein the weight ratio between the overall amount of citric acid, malic acid, succinic acid and the overall amount of leucine, isoleucine, valine, lysine, threonine is comprised between 0.05 and 0.3, preferably between 0.1 and 0.25.

**3.** The use according to claim 1 or claim 2, wherein the weight ratio between the overall amount of citric acid, malic acid, succinic acid and the overall amount of leucine, isoleucine, valine is comprised between 0.1 and 0.4, preferably between 0.15 and 0.35.

**4.** The use according to any one of the preceding claims, wherein the weight ratio between citric acid and the sum of malic acid and succinic acid is comprised between 1.0 and 4.0, preferably between 1.5 and 2.5.

**5.** The use according to any one of the preceding claims, wherein the citric acid:malic acid:succinic acid weight ratio is comprised between 10:1:1 and 2:1.5:1.5, preferably between 7:1:1 and 1.5:1:1, more preferably between 5:1:1 and 3:1:1.

**6.** The use according to any one of the preceding claims, wherein said active agent further comprises at least one amino acid selected in the group consisting of histidine, phenylalanine, methionine, tryptophan, tyrosine, cysteine.

**7.** The use according to any one of the preceding claims, wherein said active agent further comprises histidine, phenylalanine, methionine, tryptophan, cysteine and optionally tyrosine.

**8.** The use according to any one of the preceding claims, wherein the ratio between the overall molar amount of citric acid, malic acid, succinic acid and the overall molar amount of methionine, phenylalanine, histidine and tryptophan is higher than 1.35.

**9.** The use according to any one of the preceding claims, wherein the ratio between the overall molar amount of the three carboxylic acids citric acid, succinic acid, malic acid and the overall molar amount of lysine and threonine is comprised between 0.10 and 0.70, preferably between 0.15 and 0.55.

**10.** The use according to any one of the preceding claims, wherein the weight or molar amount of citric acid is higher than the overall weight or molar amount of both malic acid and succinic acid.

**11.** The use according to any one of the preceding claims, wherein the weight ratio between leucine and citric acid is comprised between 5 and 1, preferably between 2.50 and 3.50.

**12.** The use according to any one of the preceding claims, wherein the composition further comprises one or more vitamins, preferably selected in the group of vitamins B, more preferably vitamin B1 and/or vitamin B6.

**13.** The use according to any one of claims 1 to 12, wherein the central nervous system injury is selected in the group consisting of cerebral injury, spinal cord injury, peripheral nerve injury, a demyelinating disease.

**14.** The use according to claim 13, wherein the spinal cord injury comprises contusive spinal cord injury.