

Taurine synthesis, production and utility as a medicine

Technical Field:

1. Medicine

Background Art:

The quantitatively most important pathway for the excretion of cholesterol in mammals is the formation of bile salts (the conjugate bases of bile acids). The major bile salts are synthesized and secreted by as glycine or taurine conjugates.

Disclosure of Invention:

Taurine is a degradation product of cysteine. Taurine (2-aminoethyl sulphonic acid) is a component of bile. It combines with cholic acid to form taurocholic acid. Cholic acid is the metabolic fate of cholesterol. The formation of cholic acid involves a pathway involving several hydroxylations and oxidation reactions. All water soluble vitamins participate in these reactions.

Taurine lowers cholesterol, and this action is potentiated by the presence of water soluble vitamins.

Taurine is effective in lowering hypercholesterolaemia, hypertriglyceridaemia and all lipid associated disorders as in cholestasis or nephrotic syndrome, etc.. also it is effective in any type of familial or idiopathic or acquired lipid disorder. Taurine is cardioprotective.

Taurine is also effective in gall stone dissolution.

Taurine is safe, and effective in normalizing high cholesterol, low density lipoproteins, or very low density lipoproteins.

Taurine is also essential for stabilizing brain cells against changes in blood osmolality, and in conversion of serotonin to endorphins. It is effective in depression, migraine, headache, Alzheimer disease, and in psychiatric and neurological diseases.

The Novel Idea:

To control: blood levels of lipids, lipoproteins, cholesterol, and hypercholestromia associated diseases, psychiatric and neurological diseases and in gall stone dissolution, the following singly or combined are effective:

- a. Taurine
- b. Cysteine and/or acetyl cysteine,
- c. All water soluble vitamins.

Detailed Description of the Requested Patent:

- a. Taurine manufactured by all known ways as sulphonation of ethyl alcohol followed by substitution reaction at C2 or recombinant DNA technology to produce 2 aminoethyl sulphonic acid or any possible way, or by the use of probiotics to promote the use of intestinal bacterial flora to reclaim taurine from the previously liver formed taurocholic acid and taurochenodeoxycholic acid etc....
- b. Acetyl cysteine is manufactured by all known ways.
- c. Water soluble vitamins are manufactured by all known ways.

Where:

- i. All "a", "b" and "c" are effective if given as "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c".
- ii. All "a", "b" and "c" are effective if given as "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" when provided in oral or parenteral, or topical preparations.
- iii. All and any composition and any and all concentrations of "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" are effective.
- iv. Taurine used comes in its acid form or acid salt or alkali salt or in any of its compounds, or forms.

- v. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention and controlling asthersclerosis and cardiac diseases.
- vi. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention and controlling all hypercholestrolaemias, hypertriglycerdaemias, and all and any lipid and lipoprotein disorders.
- vii. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention and controlling cholestasis disorders of any aetiology.
- viii. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention and controlling steatosis of liver and steatohepatitis disorders of any aetiology.
- ix. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention, dissolution and controlling gall stone diseases.
- x. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention and controlling all psychiatric and all neurologic diseases.

Claims:**I claim that:**

- a. Taurine manufactured by all known ways as sulphonation of ethyl alcohol followed by substitution reaction at C2 or recombinant DNA technology to produce 2 aminoethyl sulphonic acid or any possible way, or by the use probiotics to promote the use of intestinal bacterial flora to reclaim taurine from the previously liver formed taurocholic acid and taurochenodexoycholic acid etc....
- b. Acetyl cysteine is manufactured by all known ways.
- c. Water soluble vitamins are manufactured by all known ways.

Where:

1. All "a", "b" and "c" are effective if given as "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c".
2. All "a", "b" and "c" are effective if given as "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" when provided in oral or parenteral, topical preparations.
3. All and any composition and any and all concentrations of "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" are effective.
4. Taurine used comes in its acid form or acid salt or alkali salt or in any of its compounds, forms or shapes.
5. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention and controlling asthersclerosis and cardiac diseases.

6. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention and controlling all hypercholestromiaemias, hypertriglyceridaemias, and all and any lipid and lipoprotein disorders.
7. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention and controlling cholestasis disorders of any aetiology.
8. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention and controlling steatosis of liver and steatohepatitis disorders of any aetiology.
9. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention and controlling gall stone diseases.
10. The "a", or "b" or "c" or as "a+b", or "a+c", or "b+c" or, "a+ b+ c" in any and all concentrations and combinations are effective in prevention and controlling all psychiatric and all neurologic diseases.