In one embodiment, deferiprone is present at about 20 to about 200 grams per litre of the composition..

In another embodiment the formulation further comprises concentrated hydrochloric acid to preferably adjust the pH thereof and preferably in the range of 2.5 to 5.0.

The sweetening agent may be selected from the group consisting of a high intensity artificial sweetener such as aspartame, sucralose, sacharin or the like.

Preferably said sweetening agent is present at about 0.1 to about 3 percent by weight.

Most preferably deferiprone is present in an amount of about 50 to 200 grams per litre of the composition.

According to yet another aspect of the invention there is provided a palatable liquid pharmaceutical formulation comprising: about 50-200 grams of deferiprone per litre of the formulation, about 15 grams of sucralose per litre of the formulation, about 500 grams of glycerin per litre of the formulation, about 1 gram of hydroxyethylcellulose per litre of the formulation, about 59 grams of concentrated hydrochloric acid per litre of the formulation, about .40 grams of FD&C Yellow No. 6 per litre of the formulation, about 2 grams of artificial cherry flavour per litre of the formulation, about .10 grams of peppermint oil per litre of the formulation and a sufficient amount of purified water to yield 1 litre of the formulation.

In another embodiment said formulations may be used in iron overload conditions of the heart, the mitrochondria or the central nevervous system including the brain.

DETAILED DESCRIPTION OF THE INVENTION

Artificial sweeteners that may be used in the present invention include, and are not limited to, aspartame, saccharin, saccharin sodium, sucralose or mixtures thereof. The taste masking effective amount of an artificial sweetener is that amount whereby the bitter taste of deferiprone is masked and the liquid pharmaceutical formulation is palatable.

Aspartame is used as a table-top sweetener and in beverage and food products and pharmaceutical and vitamin preparations to enhance flavor systems and to mask some unpleasant

What is claimed is:

1. An oral pharmaceutical liquid formulation comprising deferiprone and a taste masking composition, said taste masking composition comprising an effective amount of a sweetener (such as sucralose) per litre of liquid formulation, an effective amount of a thickening and suspension aid, (for example hydroxyethylcellulose), per litre of liquid formulation, an effective amount of a humectant (such as glycerin) per litre of liquid formulation, and an effective amount of at least one flavoring agent, wherein a final form of said oral liquid pharmaceutical formulation has a substantially non-bitter and palatable taste.

2. The formulation of claim 1, wherein the flavoring agent is selected from the group consisting of natural flavors, natural fruit flavors, artificial flavors, artificial fruit flavors, peppermint, peppermint oils and mixtures thereof.

3. The formulation of claim 1 comprising more than one flavoring agent.

4. The formulation of claim 1, wherein the sweetener is sucralose.

5. The formulation of claim 1, comprising glycerin.

6. The formulation of claim 4, wherein sucralose is present in an amount of from about 5 grams to about 30 grams per litre of the formulation.

7. The formulation of claim 1 comprising hydroxyethylcellulose.

8. The formulation of claim 1, wherein said liquid pharmaceutical formulation has a pH from about 2.5 to about 5.0.

9. The formulation of claim 1 wherein deferiprone is present at about 20 to about 200 grams per litre of the formulation.

10. The formulation of claim 1, wherein the amount of glycerin is from about 100 to about 900 grams per litre of the formulation.

11. The formulation of claim 1, wherein the amount of hydroxyethylcellulose is from about 0.5 to about 3 grams per litre of the formulation.

12. The formulation of claim 8, further comprising concentrated hydrochloric acid.

13. The formulation of claim 1, wherein said sweetener is selected from the group consisting of a high intensity artificial sweetener.

14. The formulation of claim 1, wherein said sweetener is present at about 0.1 to about 3 percent by weight.

15. The formulation of claim 1, wherein deferiprone is present in an amount of about 50 grams to about 200 grams per litre of the formulation.

16. The formulation of claim 2 wherein the flavoring agent comprises artificial cherry flavor.

17. The formulation of claim 16 wherein peppermint oil is added as an additional flavor.

18. A palatable liquid pharmaceutical formulation comprising: about 50-200 grams of deferiprone per litre of the formulation, about 15 grams of sucralose per litre of the formulation, about 500 grams of glycerin per litre of the formulation, about 1 gram of hydroxyethylcellulose per litre of the formulation, about 59 grams of concentrated hydrochloric acid per litre of the formulation, about 0.40 grams of FD&C Yellow No. 6 per litre of the formulation, about 2 grams of artificial cherry flavour per litre of the formulation, about 0.10 grams of peppermint oil per litre of the formulation and a sufficient amount of purified water to yield 1 litre of the formulation.

19. The formulation of any one of claims 1 to 18, wherein said formulation is used in iron overload conditions of the heart, the mitrochondria or the central nervous system including the brain.

In one embodiment, deferiprone is present at about 20 to about 200 grams per litre of the composition.

In another embodiment the formulation further comprises concentrated hydrochloric acid to preferably adjust the pH thereof and preferably in the range of 2.5 to 5.0.

The sweetening agent may be selected from the group consisting of a high intensity artificial sweetener such as aspartame, sucralose, sacharin or the like.

Preferably said sweetening agent is present at about 0.1 to about 3 percent by weight.

Most preferably deferiprone is present in an amount of about 50 to 200 grams per litre of the composition.

According to yet another aspect of the invention there is provided a palatable liquid pharmaceutical formulation comprising: about 50-200 grams of deferiprone per litre of the formulation, about 15 grams of sucralose per litre of the formulation, about 500 grams of glycerin per litre of the formulation, about 1 gram of hydroxyethylcellulose per litre of the formulation, about 59 grams of concentrated hydrochloric acid per litre of the formulation, about .40 grams of FD&C Yellow No. 6 per litre of the formulation, about 2 grams of artificial cherry flavour per litre of the formulation, about .10 grams of peppermint oil per litre of the formulation and a sufficient amount of purified water to yield 1 litre of the formulation.

In another embodiment said formulations may be used in iron overload conditions of the heart, the mitochondria or the central nervous system including the brain.

DETAILED DESCRIPTION OF THE INVENTION

Artificial sweeteners that may be used in the present invention include, and are not limited to, aspartame, saccharin, saccharin sodium, sucralose or mixtures thereof. The taste masking effective amount of an artificial sweetener is that amount whereby the bitter taste of deferiprone is masked and the liquid pharmaceutical formulation is palatable.

Aspartame is used as a table-top sweetener and in beverage and food products and pharmaceutical and vitamin preparations to enhance flavor systems and to mask some unpleasant

What is claimed is:

1. An oral pharmaceutical liquid formulation comprising deferiprone in a concentration of from 20 grams to 200 grams per litre of liquid formulation and a taste masking composition, said taste masking composition comprising:

a sweetener selected from the group consisting of aspartame, saccharin, saccharin sodium, sucralose and mixtures thereof, in a concentration of 0.1 grams to 400 grams per litre of liquid formulation;

hydroxyethylcellulose as a thickening and suspension aid, in a concentration of from 0.5 grams to 3.0 grams per litre of liquid formulation;

glycerin as a humectant in an amount of 100 grams to 900 grams per litre of liquid formulation; and

at least one flavoring agent selected from the group consisting of natural flavors, natural fruit flavors, artificial flavors, artificial fruit flavors, peppermint, peppermint oils and mixtures thereof;

wherein the remainder of the liquid formulation is purified water.

2. The formulation of claim 1 further comprising more than one flavoring agent.

3. The formulation of claim 1, wherein the sweetener is sucralose.

4. The formulation of claim 1, wherein said liquid pharmaceutical formulation has a pH from 2.5 to 5.0.

5. The formulation of claim 1, wherein the amount of glycerin is about 500 grams per litre of the formulation.

6. The formulation of claim 1, wherein the amount of hydroxyethylcellulose is about 1.0 grams per litre of the formulation.

7. The formulation of claim 4, further comprising concentrated hydrochloric acid.

8. The formulation of claim 1, wherein the sweetening agent is selected from the group consisting of an artificial sweetener selected from the group consisting of aspartame, sucralose and saccharin.

9. The formulation of claim 1, wherein said sweetening agent is present at 0.1 to 3 percent by weight of the formulation.

10. The formulation of claim 1, wherein deferiprone is present in an amount of 50 grams to 200 grams per litre of the formulation.

11. The formulation of claim 1 wherein the flavoring agent comprises artificial cherry flavor.

12. The formulation of claim 11 wherein peppermint oil is added as an additional flavor.

13. A liquid pharmaceutical formulation comprising: 50 to 200 grams of deferiprone per litre of the formulation, about 15 grams of sucralose per litre of the formulation, about 500 grams of glycerin per litre of the formulation, about 1 gram of hydroxyethylcellulose per litre of the formulation, about 59 grams of concentrated hydrochloric acid per litre of the formulation, about 0.40 grams of FD&C Yellow No. 6 per litre of the formulation, about 2 grams of artificial cherry flavour per litre of the formulation, about 0.10 grams of peppermint oil per litre of the formulation and a sufficient amount of purified water to yield 1 litre of the formulation.

14. The formulation of claim 1, wherein the flavoring agent is selected from the group consisting of cherry, grape, strawberry, orange-blood, melon, bannana, and citrus vanilla, and mixtures thereof.

15. The formulation of claim 1, wherein the sweetener is present in an amount of from 5 grams to 30 grams per litre of the formulation.

16. The formulation of claim 15, wherein the sweetener is sucralose.

17. The formulation of any one of claims 1 to 16, wherein said formulation is used in iron overload conditions of the heart, the mitochondria or the central nervous system including the

brain.