CLAIMS

What is claimed is:

1. A formulation for forming a beverage, comprising: a beverage base and an emulsion comprising a sucrose ester, a second emulsifier, and a water-insoluble functional ingredient, wherein the emulsion is present in the beverage base at from 0.15 to 30 wt.%.

2. The formulation of claim 1, wherein the sucrose ester comprises sucrose monoester.

3. The formulation of any one of claims 1-2, wherein the second emulsifier comprises lecithin derived from a plant;

   preferably wherein the plant belongs to genus *Helianthus*;

   more preferably wherein the plant is *Helianthus annuus*.

4. The formulation of claim 3, wherein the lecithin is derived from soybean, sunflower, canola, egg yolk, liver, dairy, meat, avocados, cabbage, or any mixture thereof.

5. The formulation of any one of claims 1-4, wherein the water-insoluble functional ingredient comprises vitamin E, fish oil, beta-carotene, vitamin D, or a mixture thereof;

   optionally wherein the vitamin E comprises D-α-tocopherol, DL-α-tocopheryl acetate, or a combination thereof.

6. The formulation of any one of claims 1-5, wherein the formulation is stable for at least 8 weeks at a temperature of 40°C without forming a ring or separating; and/or

   wherein the formulation is clear; and/or

   wherein the formulation is substantially free of a polysorbate; and/or

   wherein the formulation is substantially free of a weighting agent; and/or

wherein the sucrose ester is from 0.5 to 10 wt. %, the second emulsifier is from 0.1 to wt. 2 %, and the water-insoluble functional ingredient is from 1 to 10 wt. % of the emulsion; and/or

wherein the formulation can be reconstituted at a ratio of from 3:1 to 1000:1 or the formulation can be reconstituted at a reconstitution rate of from 0.01% to 6%.

7. A formulation for forming a beverage, comprising: a beverage base and an emulsion comprising a *Quillaja saponaria* extract, a second emulsifier, and a water-insoluble functional ingredient, wherein the emulsion is present in the beverage base at from 0.15 to 30 wt.%.

8. The formulation of claim 7, wherein the second emulsifier comprises lecithin; derived from a plant;

preferably wherein the plant belongs to genus *Helianthus*;

more preferably wherein the plant is *Helianthus annuus*.

9. The formulation of claim 8, wherein the lecithin is derived from derived from soybean, sunflower, canola, egg yolk, liver, dairy, meat, avocados, cabbage, or any mixture thereof.

10. The formulation of any one of claims 7-9, wherein the water-insoluble functional ingredient comprises vitamin E, fish oil, beta-carotene, vitamin D, or a mixture thereof;

optionally wherein the vitamin E comprises D-α-tocopherol, DL-α-tocopheryl acetate, or a combination thereof.

11. The formulation of any one of claims 7-10, wherein the emulsion is stable for at least 8 weeks at a temperature of 40°C without forming a ring or separating; and/or

wherein the formulation is clear; and/or

wherein the formulation is substantially free of a polysorbate; and/or

wherein the formulation is substantially free of a weighting agent; and/or

wherein the *Quillaja saponaria* extract is from 1 to 10 %, the second emulsifier is from 0.1 to 2 %, and the water soluble functional ingredient is from 1 to 10 % of the emulsion; and/or

wherein the formulation can be reconstituted at a ratio of from 3:1 to 1000:1 or the formulation can be reconstituted at a reconstitution rate of from 0.01% to 6%.

12. A beverage or beverage ingredient comprising the formulation of any one of claims 1-11 and a diluent.

13. The formulation of any one of claims 1-11, further comprising an anti-foaming agent; and/or

further comprising propylene glycol, glycerol, or a combination thereof.

14. A method of preparing a beverage, comprising dispensing a predetermined amount of the formulation of any one of claims 1-11 into a beverage stream or diluent.

15. The method of claim 14, wherein the formulation has a reconstitution ratio of 3:1 to 1000:1; and/or

wherein the formulation is used at a reconstitution rate of from 0.01% to 6%.