Proposed CLAIMS

(Clean)

1. A liquid formulation composition, comprising

water as a solvent;

poloxamer;

D-panthenol;

methyl paraben; and

a phospholipid as a surfactant dispersed or dissolved in water,

wherein the liquid formulation composition is an emulsion of liquid droplets having volume average particle sizes in the range from about 1 μm to about 100 μm and is characterized by

the phospholipid is present in an amount of about 0.0001 wt% to about 25.0 wt%,

poloxamer is present in an amount of about 0.01 wt% to about 5.0 wt%;

methyl paraben is present in an amount of about 0.001 wt% to about 2.0 wt%;

a surface tension of less than 30 mN/m, and

a pH value from 6.0 to 7.4.

2. The liquid formulation composition of claim 1, further comprising one of ethanol, glycerol, medical silicone oil and edible vegetable oil, or a combination thereof.

3. The liquid formulation composition of claim 1, wherein the phospholipid is a natural phospholipid.

4. The liquid formulation composition of claim 1, further comprising xylitol.

5. The liquid formulation composition of any one of the preceding claims, further comprising one of bacteriostatic agent, flavoring agent, stabilizer, antioxidant, or a combination thereof.

6. The liquid formulation composition of claim 5, wherein

the bacteriostatic agent comprises one of parabens or its salts, benzoic acid or its salts, benzyl alcohol, phenylethanol, phenylacetic acid, phenoxyethanol, lauric acid monoglyceride, chlorobutanol, sorbic acid or its salts, calcium propionate, sodium propionate, dehydroacetic acid or its salts, sodium diacetate, benzalkonium chloride,

benzalkonium bromide, cetrimide, chlorhexidine acetate, propanediol, carbon dioxide, nisin, natamycin, momordicin, thimerosal, mercuric nitrate, or a combination thereof;

the flavoring agent comprises one of menthol, borneol, lemon oil, patchouli oil, cinnamon oil, jujube tincture, vanillin, peppermint oil, rose oil, eucalyptus oil, spearmint oil, eugenol, citral, jasmine extract, chrysanthemum extract, osmanthus extract, benzyl alcohol, phenylethanol, terpineol, methyl cyclopentenolone, α-amyl cinnamic aldehyde, butyric acid, hexanoic acid, isoamyl acetate, benzyl acetate, linalyl acetate, ethyl propionate, ethyl butyrate, isoamyl butyrate, benzyl butyrate, isoamyl isovalerate, ethyl hexanoate, ethyl heptanoate, ethyl lactate, allyl hexanoate, γ-nonalactone, ethyl maltol, allyl cyclohexyl propionate, maltol, γ-undecalactone, raspberry ketone, benzyl propionate, butyl butyrate, ethyl isovalerate, ethyl formate, benzyl benzoate, methyl pyrazine, 2,3-dimethyl pyrazine, trimethyl pyrazine, 2-acetyl pyrazine, 4-methyl-5-(β-hydroxyethyl) thiazole, 2-acetyl thiazole, 2,3,5,6-tetramethyl pyrazine, hexadecanal, ethyl vanillin, hydroxyl citronellal, or a combination thereof;

the stabilizer comprises one of lecithin, poloxamer, saponin, tannin, glycerin fatty acid ester, sucrose fatty acid ester, propanediol fatty acid ester, cholesterol, cholesterol ester, polyethylene glycol, cellulose or its derivatives, dextrin, Arabic gum, tragacanth gum, pectin cellulose cheese, gelatin, alginic acid, or a combination thereof; and

the antioxidant comprises one of tert-butyl hydroxy anisole, butylated hydroxytoluene, tert-butyl hydroquinone, propyl gallate, ascorbyl palmitate, dilauryl thiodipropionate, 4-hexyl resorcinol, tocopherol, L-ascorbic acid, D-sodium erythorbate, tea polyphenols, rosemary extract, ginger extract, sugar alcohols, amino acids, or a combination thereof.

7. The liquid formulation composition of claim 6, wherein

the content of the surfactant is in the range from 0.0001 wt% to 25.0 wt%,

the content of the solvent is in the range from 63.0 wt% to 99.9879 wt%,

the content of the bacteriostatic agent is in the range from 0.001 wt% to 2.0 wt%,

the content of the flavoring agent is in the range from 0.01 wt% to 5.0 wt%,

and

the content of the antioxidant is in the range from 0.001 wt% to 5.0 wt%.

8. A medicament delivery device, comprising

a containment vessel for holding a liquid comprising an outlet; and

a liquid formulation composition according to any one of claims 1-7 held in the containment vessel.

9. The medicament delivery device of claim 8, wherein the containment vessel is configured to function as a sprayer, allowing controlled spraying of the liquid formulation composition out of the outlet.

10. The medicament delivery device of claim 8, wherein the containment vessel is configured to function as a dropping device, allowing controlled dropping of the liquid formulation composition out of the outlet.