Claims

1. A powdered topical composition for delivery to the skin comprising:

a powdered active agent; and

a powdered penetration enhancer selected from the group consisting of hyaluronic acid, collagen, fibronectin, elastin, lectin, fragments thereof and any combinations thereof, wherein the powdered active agent and powdered penetration enhancer each individually have an average particle size of 0.01 μm to 100 μm.

2. The composition of claim 1, wherein the penetration enhancer is selected from the group consisting of alcohols, glycols, fatty acids, fatty esters, fatty ethers, occlusive agents, surface active agents, dimethyl amino propionic acid derivatives, terpenes, decoy molecules, sulfoxides, cyclic ethers, amides, amines, and the like and combinations thereof.

3. The composition of any one of claims 1-2, wherein the penetration enhancer is dehydrated or lyophilized.

4. The composition of any one of claims 1-3, wherein the penetration enhancer has an average molecular weight of 2,000 Da to 100,000 Da.

5. The composition of any one of claims 1-4, wherein the active agent is selected from the group consisting of baclofen, vigabatrin, gabapentin, pregabalin, γ-amino-phosphinic acid derivatives, and combinations thereof.

6. The composition of any one of claims 1-5, wherein the composition is substantially free of water.

7. The composition of any one of claims 1-6, comprising 1 wt. % to 95 wt. % active agent.

8. The composition of any one of claims 1-7, comprising 0.1 wt. % to 10 wt. % penetration enhancer.

9. The composition of any one of claims 1 or 3-8, wherein penetration enhancer is selected from the group consisting of chemical permeation enhancers (CPEs), non-ionizable glycol ethers, known peptides or protein fragments, microparticles or nanoparticles, and

combinations thereof.

10. The composition of any one of claims 1-9, further comprising a stabilizer that is selected from the group consisting of alkanols, disodium EDTA (ethylenediamine tetraacetate), EDTA salts, EDTA fatty acid conjugates, isothiazolinone, parabens, methylparaben and propylparaben, propylene glycols, sorbates, urea derivatives, diazolidinyl urea, and combinations thereof.

11. The composition of any one of claims 1-10, further comprising a carrier, excipient, diluent, filler, disintegrant, desiccant, binder, lubricant, surfactant, hydrophobic vehicle, water soluble vehicle, emulsifier, buffer, humectant, moisturizer, solubilizer, preservative, colorant, plasticizer, or combinations thereof.

12. Use of a powdered composition comprising a powdered active agent and a powdered penetration enhancer in the manufacture of a medicament for treating a subject in need thereof, wherein the powdered penetration enhancer is selected from the group consisting of hyaluronic acid, collagen, fibronectin, elastin, lectin, fragments thereof and any combinations thereof, wherein the powdered active agent and powdered penetration enhancer each individually have an average particle size of 0.01 μm to 100 μm and wherein the medicament is formulated for topical administration to a skin surface tissue of said subject.

13. The use of claim 12, wherein the powdered active agent is selected from the group consisting of baclofen, vigabatrin, gabapentin, pregabalin, γ-amino-phosphinic acid derivatives, and combinations thereof.

14. The use of either claim 12 or claim 13, wherein the penetration enhancer is selected from the group consisting of alcohols, glycols, fatty acids, fatty esters, fatty ethers, occlusive agents, surface active agents, dimethyl amino propionic acid derivatives, terpenes, decoy molecules, sulfoxides, cyclic ethers, amides, amines, and the like and combinations thereof

15. The use of any one of claims 12-14, wherein the composition is substantially free of water.

16. The use of any one of claims 12-15, wherein the composition further comprises powdered carriers, excipients, diluents, fillers, disintegrants, desiccants, binders, lubricants, surfactants, hydrophobic vehicles, emulsifiers, buffers, humectants,

moisturizers, solubilizers, preservatives, colorants, plasticizers, carriers, or combinations thereof. 17. The use of claim 12, wherein the subject in need of treatment requires treatment for pain.

17. The use of claim 12, wherein the subject in need of treatment requires treatment for pain.

18. The use of claim 17, wherein the pain arises from or is associated with acute or chronic pain, somatic pain, visceral pain, inflammatory pain, neuropathy, arthritis, osteoarthritis, headache, or any combinations thereof.