CLAIMS

1. An antimicrobial composition comprising rosemary essential oil, cultured dextrose and buffered vinegars, wherein the rosemary essential oil is present at a concentration of 1% or less, the cultured dextrose is present at a concentration of 1% or less, and the buffered vinegar is present at a concentration of 0.1% or less, and wherein the composition exhibits synergistic antimicrobial activity.

2. The antimicrobial composition according to Claim 1, wherein the cultured dextrose constituent is a fermentation product of sugar sources such as corn, cane sugar, or dairy based sources including skim milk.

3. The antimicrobial composition according to Claim 1 or 2, wherein the buffered vinegar constituent is a fermentation product of corn and cane sugar, but may also be applied to general vinegar compounds having acetic acid as a main component.

4. The antimicrobial composition according to Claim 1 or 2, wherein the buffered vinegar constituent is selected from general vinegar compounds having acetic acid as a main component.

5. A stabilized food, beverage, cosmetic and / or nutritional supplement comprising an antimicrobial composition according to any one of Claims 1 to 4.

6. A method for stabilizing foods, beverages, cosmetics and / or nutritional supplements comprising incorporating an effective amount of an antimicrobial composition according to any one of Claims 1 to 4, wherein the composition exhibits synergistic antimicrobial activity.