Claims

1. Disinfecting composition comprising the following biocides:
   a) Tartaric acid in concentrations from 1 mM to 70 mM;
   b) Lactic acid in concentrations from 1 mM to 70 mM,
   c) at least one essential oil or oil extract in concentrations from 0.01 wt% to 1 wt% selected from lavender oil or oil extract and/or peppermint oil or oil extract,
   d) copper-PCA in concentrations from 1 mM to 10 mM.

2. Disinfecting composition according to claim 1, wherein the composition further comprises L-ascorbic acid.

3. Disinfecting composition according to claim 2, wherein L-ascorbic acid is included in concentrations from 1 mM to 50 mM.

4. Disinfecting composition according to any of the preceding claims, wherein the concentration of the lavender oil or oil extract and/or peppermint oil or oil extract is from 0.05 wt% to 1 wt%, or from 0.1 wt% to 1 wt%, or from 0.1 wt% to 0.5 wt%.

5. Disinfecting composition according to any of the preceding claims, wherein the composition comprises from 0.01 wt% to 0.5 wt%, or from 0.05 wt% to 0.2 wt%, or from 0.09 wt% to 0.1 wt% lavender oil or oil extract and from 0.01 wt% to 0.5 wt%, or from 0.05 wt% to 0.2 wt%, or from 0.09 wt% to 0.1 wt% peppermint oil or oil extract.

6. Disinfecting composition according to any of the preceding claims, wherein the concentration of the tartaric acid is from 10 mM to 50 mM, or from 20 mM to 50 mM, or from 30 mM to 50 mM, or from 35 mM to 45 mM, or around 40 mM.

7. Disinfecting composition according to any of the preceding claims, wherein the concentration of the lactic acid is from 10 mM to 50 mM, or from 20 mM to 50 mM, or from 30 mM to 50 mM, or from 35 mM to 45 mM, or around 40 mM.

8. Disinfecting composition according to any of the preceding claims, further comprising at least one buffer substances.

9. Disinfecting composition according to any of the preceding claims, further comprising alcohols.

10. Disinfecting composition according to claim 9, where the alcohol is Ethanol.

11. Disinfecting composition according to any of the preceding claims, further comprising a pH 2.5 to 4 stable anionic surfactant.

12. Disinfecting composition according to any of the preceding claims, having a pH value in the range of 2 to 4, or from 2.5 to 4, or from 2.5 to 3.

13. Use of the disinfecting composition according to any one of claims 1 to 12 for treating contaminated surfaces where the surfaces is selected from surfaces on sensitive equipment such as fixed panel equipment and non-rinse/washable equipment such as control panels, medical instruments such as infusion pumps, stethoscopes, thermometers, blood pressure-apparatus, nanometres or flow meters, beds, nursing pillow, non-alcohol tolerant furniture surfaces, food preparation surfaces and equipment, walls or floors.

14. A disinfecting composition according to any one of claims 1 to 12 for use on skin such as hands and body.

15. Method for disinfecting a contaminated surface, said method comprising:

- providing a disinfecting composition comprising tartaric acid in concentrations from 1 mM to 70 mM, lactic acid in concentrations from 1 mM to 70 mM, at least one essential oil or oil extract in concentrations from 0.01 wt% to 1 wt% selected from lavender oil or oil extract and/or peppermint oil or oil extract and copper-PCA in concentrations from 1 mM to 10 mM;
- treating a contaminated surface with said disinfecting composition, wherein microorganisms on said surface is killed by denaturing, solubilising, inactivating and degrading their proteins and nucleic acids,

  where the surface is selected from surfaces on sensitive equipment such as fixed panel equipment and non-rinse/washable equipment such as control panels, medical instruments such as infusion pumps, stethoscopes, thermometers, blood

pressure-apparatus, nanometres or flow meters, beds, nursing pillow, non-alcohol tolerant furniture surfaces, food preparation surfaces and equipment, walls or floors.

16. Method for disinfecting a contaminated surface, said method comprising:

- providing a disinfecting composition comprising tartaric acid in concentrations from 1 mM to 70 mM, lactic acid in concentrations from 1 mM to 70 mM, at least one essential oil or oil extract in concentrations from 0.01 wt% to 1 wt% selected from lavender oil or oil extract and/or peppermint oil or oil extract and copper-PCA in concentrations from 1 mM to 10 mM;
- treating a contaminated surface with said disinfecting composition, wherein microorganisms on said surface is killed by denaturing, solubilising, inactivating and degrading their proteins and nucleic acids,

  where the surface is skin such as hands and body.

17. Method for disinfecting a contaminated surface, said method comprising:

- providing a disinfecting composition comprising tartaric acid in concentrations from 1 mM to 70 mM, lactic acid in concentrations from 1 mM to 70 mM, at least one essential oil or oil extract in concentrations from 0.01 wt% to 1 wt% selected from lavender oil or oil extract and/or peppermint oil or oil extract, copper-PCA in concentrations from 1 mM to 10 mM and L-ascorbic acid in concentrations from 1 mM to 50 mM;
- treating a contaminated surface with said disinfecting composition, wherein microorganisms on said surface is killed by denaturing, solubilising, inactivating and degrading their proteins and nucleic acids,

  where the surface is selected from surfaces on sensitive equipment such as fixed panel equipment and non-rinse/washable equipment such as control panels, medical instruments such as infusion pumps, stethoscopes, thermometers, blood pressure-apparatus, nanometres or flow meters, beds, nursing pillow, non-alcohol tolerant furniture surfaces, food preparation surfaces and equipment, walls or floors.

18. Method for disinfecting a contaminated surface, said method comprising:

- providing a disinfecting composition comprising tartaric acid in concentrations from 1 mM to 70 mM, lactic acid in concentrations from 1 mM to 70 mM, at least one essential

oil or oil extract in concentrations from 0.01 wt% to 1 wt% selected from lavender oil or oil extract and/or peppermint oil or oil extract, copper-PCA in concentrations from 1 mM to 10 mM and L-ascorbic acid in concentrations from 1 mM to 50 mM;

- treating a contaminated surface with said disinfecting composition, wherein microorganisms on said surface is killed by denaturing, solubilising, inactivating and degrading their proteins and nucleic acids,

where the surface is skin such as hands and body.