Claims

1. An antimicrobial agent including a hypochlorous acid aqueous solution not generating chlorine gas, wherein said hypochlorous acid aqueous solution consists of sodium hypochlorite as a food additive, purified water and dilute hydrochloric acid solution, and wherein

effective chlorine concentration range in said aqueous solution is between 150 and 260 ppm, and pH range of said aqueous solution is between 3.0 and ~~4.5~~5.5, whereby

said antimicrobial agent disinfects bacteria within 1 minute.

~~2. The antimicrobial agent according to claim 1, wherein~~

~~the bacterium is any one of bacterium selected from the group consisting of Clostridium butyricum and Clostridium sporogenes.~~

~~3. An antimicrobial agent including a hypochlorous acid aqueous solution, wherein the effective chlorine concentration range in said aqueous solution is from 50 to 260 ppm, and pH range of said aqueous solution is between 3.0 and less than 6.0, for inhibiting the growth of any one of microbe selected from the group consisting of a yeast, a fungus, and a virus.~~

~~4. The antimicrobial agent according to claim 3, wherein~~

~~the effective chlorine concentration range in said aqueous solution is from 60 to 150 ppm, and pH range of said aqueous solution is between 3.0 and less than 6.0, for inhibiting the growth of any one of microbe selected from the group consisting of a yeast, a fungus, and a virus.~~

~~5. The antimicrobial agent according to claim 3, wherein~~

~~the yeast is any one of yeast belonging Rhodotorula sp.~~

~~6. The antimicrobial agent according to claim 3, wherein~~

~~the fungus is any one of fungus selected from the group consisting of Cladosporium cladosporioides, Penicillium roqueforti, Penicillium glabrum, Aspergillus niger, Eurotium amstelodami, Neosartorya fischeri, Emericella nidulans, Fusarium, and Alternaria.~~

~~7. The antimicrobial agent according to claim 4, wherein~~

~~the virus is Norovirus.~~

~~8. An antimicrobial agent including a hypochlorous acid aqueous solution , wherein~~
~~the effective chlorine concentration range in said aqueous solution is between 150 and 260 ppm, and pH range of said aqueous solution is between 3.0 and 6.5, whereby~~
~~said antimicrobial agent disinfects a virus within 10 seconds.~~

~~9. The antimicrobial agent according to claim 8, wherein~~
~~the virus is any one of virus selected from the group consisting of Canine parvovirus, Feline panleukopenia virus, and Measles virus.~~

~~10. The antimicrobial agent according to claim 1 to 9, wherein~~
~~said hypochlorous acid aqueous solution consists of sodium hypochlorite as a food additive, purified water as defined by the Japanese Pharmacopoeia, and dilute hypochlorous acid solution as defined in the Japanese Pharmacopoeia.~~

~~11~~2. A method for disinfecting a microbe comprising a step;
immersing ~~a~~any one of microbe selected from the group consisting of the Clostridium in the antimicrobial agent according to ~~any one of the claims 1 or 2~~ claim 1for a period from ~~0.5 minutes to 10 minutes~~ 10 seconds to 10 minutes.

3. The method for disinfecting a microbe according to claim 2,
the Clostridium is any one of microbe selected from the group consisting of Clostridium butyricum and Clostridium sporogenes.

~~12. A method for disinfecting a microbe comprising a step;~~
~~immersing any one of microbe selected from the group consisting of the yeast, the fungus, and the virus in the antimicrobial agent according to any one of the claims 3 to 7 for a period from 0.5 minutes to 10 minutes.~~

~~13~~4. A method for disinfecting a microbe comprising a step;
immersing ~~the~~a virus in the antimicrobial agent according to ~~any one of the claims 8 or 9~~ claim 1 for a period from 10 seconds to 60 seconds.

5. The method for disinfecting a microbe according to claim 4, wherein

the virus is any one of virus selected from the group consisting of Feline panleukopenia virus, Canine parvovirus, and Measles virus.

6. A method for producing the antimicrobial agent according to claim 1, comprising the steps of:

adding sodium hypochlorite as a food additive into purified water at 0.018-0.026 weight/volume % to prepare sodium hypochlorite solution;

adding dilute hydrochloric acid (9.5-10.5 weight/volume %) to adjust the pH range; and thereafter

adding purified water to adjust the effective chlorine concentration range.