Claims

[Claim 1] An ozone water production apparatus, comprising:

a solution accommodation unit configured to accommodate a magnesium solution, wherein the magnesium solution consisting of ~~in which~~ 1.0 mass% or more and less than 4.0 mass% of a magnesium compound ~~is~~ dissolved in pure or purified water; and

a bubble introduction unit configured to introduce fine bubbles of ozone into the magnesium solution.

[Claim 2] An ozone water production method, comprising

introducing fine bubbles of ozone into a magnesium solution, wherein the magnesium solution consisting of ~~in which~~ 1.0 mass% or more and less than 4.0 mass% of a magnesium compound ~~is~~ dissolved in pure or purified water.

[Claim 3] Ozone water, ~~comprising~~ consisting of:

a magnesium solution, wherein the magnesium solution consisting of 1.0 mass% or more and less than 4.0% of a magnesium compound dissolved in pure or purified water; and

fine bubbles of ozone.

[Claim 4] An ozone water treatment apparatus, comprising a spray unit configured to spray ozone water according to claim 3 ~~containing 1.0 mass% or more and less than 4.0 mass% of a magnesium compound and fine bubbles of ozone~~ so as to give a particle diameter of 10μm or less.

[Claim 5] An evaluation method, comprising the steps of:

installing a predetermined number of bacterial at each of a plurality of measurement points having different distances from a spray unit configured to spray ozone water according to claim 3~~containing 1.0 mass% or more and less than 4.0 mass% of a magnesium compound and fine bubbles of ozone so as to give a particle diameter of 10 μm or less~~;

spraying the ozone water so as to give a particle diameter of 10 μm or less by the spray unit; and

counting the number of the bacteria at each of the plurality of measurement points after an elapse of a predetermined period of time from execution of the step of spraying