CLAIMS

1. A sterilization method for a water system, wherein a stabilized composition comprising a bromine-based oxidizing agent and a sulfamic acid compound, or a stabilized composition comprising a chlorine-based oxidizing agent and a sulfamic acid compound, is added to a precursor-containing water that contains a nitrosamine compound precursor,

wherein the nitrosamine compound precursor is capable of reacting with chloramine to produce N-nitrosodimethylamine (NDMA), and the precursor-containing water and the stabilized composition are in continuous contact for not longer than 5 hours; and

wherein the stabilized composition is added so that an effective halogen concentration (effective chlorine equivalent concentration) in the precursor-containing water is not more than 3 mgCl/L.

2. The sterilization method for a water system according to Claim 1, wherein

the nitrosamine compound precursor includes at least one compound from among dimethylamine, trimethylamine, N,N-dimethylisopropylamine, N,N-dimethylbenzylamine, ranitidine, tetramethylthiuram disulfide, dimethyldithiocarbamate, polydiallyldimethylammonium chloride, and polymers containing an amino group.

3. The sterilization method for a water system according to Claim 1 or 2, wherein

a concentration of the nitrosamine compound precursor in the precursor-containing water, expressed as a nitrosamine compound production potential, is at least 100 ng/L.

4. The sterilization method for a water system according to any one of Claims 1 to 3, wherein

the nitrosamine compound precursor includes at least one of dimethylamine, trimethylamine and N,N-dimethylbenzylamine, and a concentration of the nitrosamine

compound precursor in the precursor-containing water is at least 100 μg/L.

5. The sterilization method for a water system according to any one of Claims 1 to 4, wherein

the bromine-based oxidizing agent is bromine, bromine chloride, or a reaction product of a bromine compound and a chlorine-based oxidizing agent.

6. The sterilization method for a water system according to any one of Claims 1 to 5, wherein

the chlorine-based oxidizing agent is hypochlorous acid or a salt thereof.

7. The sterilization method for a water system according to any one of Claims 1 to 6, wherein

following addition of the stabilized composition to the precursor-containing water, at least one treatment among a separation membrane treatment and an oxidative degradation treatment is conducted.

8. The sterilization method for a water system according to Claim 7, wherein

a separation membrane used in the separation membrane treatment is a reverse osmosis membrane.

9. A method of removing a nitrosamine compound from a water system, wherein a stabilized composition comprising a bromine-based oxidizing agent and a sulfamic acid compound, or a stabilized composition comprising a chlorine-based oxidizing agent and a sulfamic acid compound, is added to a precursor-containing water that contains a nitrosamine compound precursor, and a reverse osmosis membrane treatment and an oxidative degradation treatment are subsequently conducted in that order,

wherein the nitrosamine compound precursor is capable of reacting with chloramine to produce N-nitrosodimethylamine (NDMA), and the precursor-containing water and the stabilized composition are in continuous contact for not longer than 5 hours; and

wherein the stabilized composition is added so that an effective halogen concentration (effective chlorine equivalent concentration) in the precursor-containing water is not more than 3 mgCl/L.

10. A drinking water production method, wherein a stabilized composition, comprising a bromine-based oxidizing agent and a sulfamic acid compound, or a stabilized composition comprising a chlorine-based oxidizing agent and a sulfamic acid compound, is added to a precursor-containing water that contains a nitrosamine compound precursor, and a reverse osmosis membrane treatment is subsequently conducted to produce the drinking water,

wherein the nitrosamine compound precursor is capable of reacting with chloramine to produce N-nitrosodimethylamine (NDMA), and the precursor-containing water and the stabilized composition are in continuous contact for not longer than 5 hours; and

wherein the stabilized composition is added so that an effective halogen concentration (effective chlorine equivalent concentration) in the precursor-containing water is not more than 3 mgCl/L.

11. The drinking water production method according to Claim 10, wherein the precursor-containing water is a secondary treated sewage.