C L A I M S

1. Process for the purification of an aqueous hydrogen peroxide solution comprising at least the following steps:

(a) the treatment of an aqueous hydrogen peroxide solution with at least one first reverse osmosis system,

(b) the treatment of the obtained hydrogen peroxide solution with at least one first stabilizer, wherein the at least one first stabilizer is selected from phosphates, pyrophosphates, phosphoric acid and combinations thereof;

(c) the treatment of the obtained hydrogen peroxide solution with at least one adsorption resin.

2. Process according to Claim 1, comprising a further step (d) wherein the obtained hydrogen peroxide solution is treated with at least one ion exchange resin.

3. Process according to Claim 2 wherein step (d) consists in the treatment of the obtained hydrogen peroxide solution with a cationic exchange resin followed by an anionic exchange resin followed by a cationic exchange resin.

4. Process according to any one of Claims 1 to 3 wherein the first reverse osmosis system comprises at least two parallel reverse osmosis membranes.

5. Process according to any one of Claims 1 to 4, comprising after step (b) and before step (c) a treatment step (b') wherein the hydrogen peroxide solution obtained from step (b) is further treated with at least one second reverse osmosis system.t

6. Process according to Claim 5, comprising after step (b') and before (c) a treatment step (b'') wherein the hydrogen peroxide solution obtained from step (b') is further treated with at least one second stabilizer.

7. Process according to Claim 6, wherein the at least one second stabilizer is selected from phosphates, pyrophosphates, phosphoric acid and combinations thereof, being preferably the same as the at least one first stabilizer.

8. Process according to anyone of claims 1 to 7, wherein the first and/or the at least one second reverse osmosis system comprises stainless steel.

9. Process according to anyone of claims 1 to 8, wherein the first and/or the at least one second reverse osmosis system, and or the adsorption resin and/or optionally the ion exchange resin, more particularly the anionic exchange resin comprises a nitrogen containing polymer.