wherein said active ingredient in the above mentioned composition is formulated as endometrial irrigation or uterine washing or endometrial washing in physiological solution.

15. Composition according to claim 14, characterized in that it further comprises essential and non-essential amino acids and buffer salts to maintain pH between 7-8, preferably 7.5-7.8.

16. Medical device for uterine washing comprising a sterile container pre-filled ~~or to be filled~~ with a composition according to any one of claims 9-15.

17. Medical device according to claim 16, wherein the sterile container is disposable.

18. Medical device according to claim 16 or 17, wherein the sterile container is a syringe, a dispenser or a cartridge for self-injection devices.

19. Medical device according to anyone of the preceding claims, further comprising a sterile intrauterine catheter.

20. Medical device according to anyone of claims 16-19, comprising a disposable sterile container pre-filled with a formulation based on a physiological solution supplemented with melatonin, amino acids and buffer salts to maintain pH between 7-8, preferably 7.5-7.8.

21. Medical device according to claim 20, wherein said formulation comprises essential and non-essential amino acids and buffer salts preferably selected between calcium, potassium and magnesium

and sodium pyruvate;

- Potassium salts: potassium chloride, potassium phosphate;

- Magnesium salts: magnesium chloride, magnesium sulphate;

and mixtures thereof;

- water;

characterized in that it further comprises N-acetyl-5-methoxy tryptamine or an analogue thereof, or a combination thereof, wherein said active ingredient is present in a concentration ranging from 4×10^{-9} g/ml to 25×10^{-9} g/ml, preferably greater than or equal to 10×10^{-9} g/ml.

26. Use of the cell culture medium according to claim 25, for the growth of pinopodes and the obtaining of an *in vitro* model study.

27. Composition according to any one of claims 9-10, wherein said active is formulated as a gel for uterine administration.

28. Composition according to claim 27, wherein the gel is a controlled release gel formulation.