CLAIMS

1. A package for administration of medicinal or nutritional substances, comprising:

an outer bag (1) with a sterilized inner chamber (2),

a bottle (5) of medicinal or nutritional substance (6) set in an overturned position and disposed within the inner chamber (2) of the outer bag (1), the bottle (5) comprising a neck (7) and a pierceable cap (8),

a device (9) configured to withdraw or reconstitute substance (6) contained in the bottle (5), the device (9) is hooked to the neck (7) of the bottle (5), and the device (9) comprises a perforation needle (13) configured to move in an axial direction relative to the bottle (5) and to perforate the cap (8) of the bottle (5) and a bottom shank (34) extending from a base of the needle (13), and

an outflow tube (15) extending out of the outer bag (1) and comprising an openable closure element (17) disposed in a passage of the outflow tube (15),

characterized in that said perforation needle (13) comprises:

a first channel (18) extending longitudinally through the perforation needle (13) such that first channel (18) establishes fluid communication between an interior of the bottle (5) and the passage of the outflow tube (15) when the perforation needle (13) perforates the cap (8) and the closure element (17) is opened,

a second channel (19) extending from a side opening (20) of the perforation needle (13) to a tip of the perforation needle (13), wherein the side opening (20) is disposed at the base of the needle (13) above the bottom shank (34) and opens directly into the inner chamber of the outer bag (1), and

a hydrophobic filter (21) disposed within the perforation needle (13) at the side opening (20) and configured to allow only air or other gaseous fluid to flow between the interior of the bottle (5) and the inner chamber (2) of the bag (1) when the perforation needle (13) perforates the cap (8).

2. The package according to claim 1, characterized in that the reconstitution device (9) comprises an upper body (10) equipped with flaps configured to be hooked to the neck (7) of the bottle (5) and a lower body (12) slidably coupled to the upper body (10) the lower body (12) comprises said perforation needle (13) and a bottom shank (34) housed

hermetically within said outflow tube (15), and the first channel (18) extends in a longitudinal direction through the bottom shank.

3. The package according to claim 1 or 2, characterized in that said outflow tube (15) includes an end connector (16) disposed at an end of the outflow tube (15) and configured to open and close the end of the outflow tube (15).

4. The package according to claim 3, characterized in that said end connector (16) configured to be coupled to an opening syringe (22, 24).

5. The package according to any one of the preceding claims, characterized in that said bag (1) is made of a flexible material.

6. The package according to any one of claims 1-5, characterized in that said bag (1) comprises a tube (3) with an airtight connector (4) configured to open and close to introduce a mixture of ozone or any other sterilizing gas into said inner chamber (2) of the bag (1).

7. The package according to any one of claims 1-6, characterized by comprising: a second bag (31) positioned below said outer bag (1) and designed to contain a liquid substance (35) to be mixed with said medicinal or nutritional substance (6), and a two-way tap (29) disposed between the outer bag (1) and the second bag (31), the two-way tap (29) comprising a side open/close connector (32) configured to be coupled to an opening syringe (40) with a sliding plunger (41), characterized in that said tap (29) is configured to be adjusted between a first position inhibiting communications between said side connector (32) and said second bag (31), and a second position inhibiting communications between said side connector (32) and said outflow tube (15) of said outer bag (1).

8. The package according to claim 7, characterized in that said two-way tap (29) comprises a first connector (36) secured to an end connector (16) of the outflow tube (15) of the outer bag (1) and a second connector (38) secured to an end connector (30) of a second outflow tube of the second bag (31).

9. The package according to claim 7, characterized in that said tap (29) is permanently secured to the outflow tube (15) of the outer bag (1) and a second outflow tube of the second bag (31).

10. The package according to any one of claims 1-3 and 5-6, further comprising a collection bag (27) positioned below said outer bag (1) and in communication with the outer bag (1).