Claims

1. Device (1) for dispensing eye drops, comprising:

- a first container (2) containing a first liquid substance,
- a second container (3) containing a second freeze-dried substance comprising a therapeutic agent, and
- a spacer (4) arranged between the first and second containers (2, 3),

the first container (2) comprising a tubular element (9) having an end portion (10) open so as to allow the first substance to flow through said open end portion (10),

the second container (3) comprising a piercible barrier (17) intended to prevent mixing of the first substance with the second substance and a wall (16) configured to be engaged in a fluid-tight manner around the tubular element (9),

wherein the spacer (4) has substantially parallel opposite bases (20) intended to be arranged between and in contact with the first and second containers (2, 3), and

wherein the spacer (4) is movable between an assembled position, in which it prevents the tubular element (9) from coming into contact with the piercible barrier (17), and a removed position, in which a relative movement of the first and second containers (2, 3) is allowed and the tubular element (9) comes into contact with the piercible barrier (17), piercing it.

2. Device (1) according to Claim 1, wherein the piercible barrier (17) is configured to operate between at least one closed condition, in which mixing of the first substance with the second substance is prevented, and an open condition, in which mixing of the first substance with the second substance is allowed.

3. Device (1) according to Claim 1 or Claim 2, wherein the piercible barrier (17) is engaged with the second container (3) both in the closed condition and in the open

condition and wherein the piercible barrier (17) is arranged in proximity to said wall (16) of the second container (3).

4. Device (1) according to Claim 1 or Claim 2 or Claim 3, wherein the tubular element (9) comprises means (11) for mechanically connecting together the first and second containers (2, 3) configured to engage in a fluid-tight manner with said wall (16) of the second container (3), the end portion (10) of the tubular element (9) being configured to pierce the barrier (17), the mechanical connection means (11) of the tubular element (9) being configured to allow the relative movement of the first and second containers (2, 3) between at least one position in which the tubular element (9) is spaced from the piercible barrier (17) and the position in which the tubular element (9) acts on the piercible barrier (17) so as to pierce it.

5. Device (1) according to the preceding claim, wherein the second container (3) comprises a base portion (12) defining a seat (15), the seat (15) being delimited at one end by the piercible barrier (17) and being delimited laterally by said wall (16) of the second container (3), said wall (16) being at least partially shaped to match the mechanical connection means (11) of the tubular element (9) so as to engage in a fluid-tight manner around said tubular element (9).

6. Device (1) according to Claim 4 or Claim 5, wherein the mechanical connection means (11) of the tubular element (9) comprise peripheral projections configured to engage in a fluid-tight manner on said wall (16) of the second container (3) and wherein the mechanical connection means (11) of the tubular element (9) are of the type having at least one thread or of the snap-engaging type or of the bayonet type.

7. Device (1) according to Claim 4 or Claim 5 or Claim 6, wherein said wall (16) of the second container (3) is configured to be engaged in a fluid-tight manner with said connection means (11) of the tubular element (9).

8. Device (1) according to any one of the preceding claims, wherein the first container (2) comprises a base portion (6) containing the first liquid substance, said tubular element (9) being formed as one piece with the base portion (6), the base portion (6) comprising a substantially flat support base (7) and an opposite wall (8) parallel to the support base (7), the tubular element (9) projecting transversely from said opposite wall (8).

9. Device (1) according to any one of the preceding claims, wherein the first container (2) is formed as one piece and wherein the second container (3) is formed as one piece.

10. Device (1) according to any one of the preceding claims, wherein the tubular element (9) has a first section with a substantially smooth outer surface configured to receive the spacer (4) and a second section comprising mechanical connection means (11) configured to engage the tubular element (9) with said wall (16) of the second container (3), and wherein:

- the second container (3) comprises the piercible barrier (17) and a base portion (12) defining a seat (15), the seat (15) being delimited at one end by the piercible barrier (17) and being laterally delimited by said wall (16) of the second container (3), said wall (16) being at least partially shaped to match the second section of the tubular element (9) so as to engage in a fluid-tight manner around said tubular element (9).

11. Device (1) according to any one of the preceding claims, wherein the spacer (4) arranged between the first and second containers (2, 3) has a substantially

annular form comprising a gap (22) which allows the lateral extraction thereof even when the wall (16) of the second container (3) is engaged in a fluid-tight manner around the tubular element (9) of the first container (2).

12. Device (1) according to any one of the preceding claims, wherein the second container (3) comprises a base portion (12) and a collar (13) arranged on the opposite side to the base portion (12), the collar (13) being intended to be connected to a dispensing member (5), such as a dropper, the collar (13) having an opening (14) intended to allow, during use of the device (1), the passage of fluid.

13. Device (1) according to the preceding claim, comprising a dispensing member (5), such as a dropper, engaged with the collar (13) of the second container (3) and configured to dispense drops while maintaining a sterile environment in the second container (3), said dispensing member (5) and said collar (13) comprising mechanical connection means of the type having at least one thread or of the snap-engaging type or of the bayonet type.

14. Device (1) according to any one of the preceding claims, wherein the first container (2) is made of a material having a hardness greater than the hardness of the material of the second container (3).

15. Device (1) according to any one of the preceding claims, wherein the first container (2) contains water or a water-based solution for injection (200) and the second container (3) contains a freeze-dried composition (300) comprising a drug of a chemical and/or biotechnological nature, preferably comprising a nerve growth factor.