

halogenated butyl rubber, styrene-butadiene rubber, and mixtures thereof, and the elastomeric material of the plunger stopper is selected from isoprene rubber (IS), butadiene rubber (BR), butyl rubber, halogenated butyl rubber, styrene-butadiene rubber, and mixtures thereof, and wherein the biological activity of the botulinum toxin expressed in Mouse Units (MU) is not reduced by more than 25%, relative to the initial toxin activity, upon storage of the prefilled syringe for 12 months at 5°C or 3 months at 25°C. In one example, there is disclosed a prefilled plastic container (e.g., a syringe, vial, carpule or ampoule) comprising an aqueous botulinum toxin formulation, wherein the toxin activity is not reduced by more than 25%, relative to the initial toxin activity, upon storage of the prefilled container for (a) 12 months at 5°C or (b) 3 months at 25°C.

[0015] The stability of the aqueous botulinum toxin formulation in the prefilled container (e.g., a syringe, vial, carpule or ampoule) in terms of the count (number) of sub-visible particles equal to or greater than 10 µm is also excellent and generally below 1000/ml during storage for 6 to 24 months (e.g., 6, 9, 12, 15, 18 or 24 months) at 2-25°C (e.g., at 5°C or 25°C). Furthermore, the aqueous botulinum toxin formulation in the prefilled container exhibits an excellent pH stability as indicated by a pH value that is generally not increased or decreased by more than 10%, relative to the initial pH value, during storage of the prefilled container (e.g., a syringe, vial, carpule or ampoule) for 6 to 24 months (e.g., 6, 9, 12, 15, 18 or 24 months) at 2-25°C (e.g., at 5°C or 25°C).

[0016] In another aspect, the present invention refers to a kit comprising a prefilled plastic syringe as disclosed herein and, optionally, instructions for use of said prefilled plastic syringe. In one example, there is disclosed a kit comprising a prefilled plastic container (e.g., a syringe, vial, carpule or ampoule) according to the first aspect of the invention and, optionally, instructions for use of said prefilled plastic container.

[0017] In one example, there is disclosed a prefilled plastic syringe as disclosed herein for use in therapy. In one example, there is disclosed a prefilled plastic container (e.g., a syringe, vial, carpule or ampoule) according to the first aspect of the present invention for use in therapy. For example, the prefilled plastic container (e.g., a syringe, vial, carpule or ampoule) may be used for treating a disease or condition caused by or associated with hyperactive cholinergic innervation of muscles or exocrine glands in a patient including, but not limited to, dystonia, spasticity, paratonia, dyskinesia, focal spasm, strabismus, tremor, tics, migraine, sialorrhea and hyperhidrosis.

[0018] In one aspect, the present invention refers to use of the prefilled plastic syringe of any one of claims 1 to 8 in cosmetic applications, such as for treating wrinkles of the skin and facial asymmetries. In another example, there is disclosed the use of the prefilled plastic container (e.g., a syringe, vial, carpule or ampoule) according to the first aspect of the

invention in cosmetic applications, such as for treating wrinkles of the skin and facial asymmetries, e.g. glabellar frown lines, crow's feet, upper facial rhytides and platysma bands.

[0019] In one example, there is disclosed a method for the treatment of a disease or condition caused by or associated with hyperactive cholinergic innervation of muscles or exocrine glands in a patient, the method comprising locally administering an effective amount of botulinum toxin to a muscle or exocrine gland of the patient by injection using the prefilled plastic container (e.g., a syringe, vial, carpule or ampoule) according to the first aspect of the invention.

[0019a] In yet another example, there is disclosed use of an effective amount of botulinum toxin to a muscle or exocrine gland of the patient by injection using the prefilled plastic container as described herein, in the manufacture of a medicament for the treatment of a disease or condition caused by or associated with hyperactive cholinergic innervation of muscles or exocrine glands in a patient.

[0020] In another aspect, the present invention refers to a method for the cosmetic treatment of the skin, such as for treating wrinkles of the skin and facial asymmetries, the method comprising locally administering an effective amount of botulinum toxin to a patient by intradermal, subdermal or subcutaneous injection using the prefilled plastic syringe as disclosed herein. In another example, there is disclosed a method for the cosmetic treatment of the skin, such as for treating wrinkles of the skin and facial asymmetries, the method comprising locally administering an effective amount of botulinum toxin to a patient by intradermal, subdermal or subcutaneous injection using the prefilled plastic container (e.g., a syringe, vial, carpule or ampoule) according to the first aspect of the present invention.

[0021] Further embodiments of the present invention are set forth in the appended dependent claims. The present invention may be more fully understood by reference to the following detailed description of the invention, the examples and the accompanying drawings.

9. A kit comprising a prefilled plastic syringe according to any one of claims 1 to 8 and, optionally, instructions for use of said prefilled plastic syringe.
10. Use of the prefilled plastic syringe of any one of claims 1 to 8 in cosmetic applications, such as for treating wrinkles of the skin and facial asymmetries.
11. A method for the cosmetic treatment of the skin, such as for treating wrinkles of the skin and facial asymmetries, the method comprising locally administering an effective amount of botulinum toxin to a patient by intradermal, subdermal or subcutaneous injection using the prefilled plastic syringe according to any one of claims 1 to 8.