CLOSURE SYSTEMS FOR STANDARD VIALS



ARaymondlife* proposes an innovative range of closure systems for pharmaceutical vials. RayDyLyo offers an all plastic solution, an alternative to aluminum caps.

ADVANTAGES

-))) Eliminates the crimping operation for liquid fill and lyo products
-))) Stopper pre-assembled in the RayDyLyo cap
-))) Vial closure by simple vertical pressure, manual or automatic
-))) Capping and closing in the lyophilizer (class A guarantee)
-))) Reduces the risk of the stoppers adhering to the lyophilizer plates
-))) Reduces « pop-off » effect









RayDyLyo CTO Ø 13, 20, 32 mm

- CTO version (Central Tear-Off)
- Suitable for injectables under liquids and freeze-dried forms
- Specific development on request for non ISO vials

RayDyLyo TTO⁽²⁾ Ø 20 mm



- TTO version (Total Tear-Off)
- Easy access to the stopper after cap removal and body part dismantling
- Usable for mixing and reconstituting products

SIMPLIFIED PROCESS

2 steps in 1



Traditional cap 2 steps



RayDyLyo cap 1 step only

CUSTOMIZATION



- Wide color range available for the cap
- · Labelling possibility on body part

ERGONOMICS

- · Easy cap removal
- · Less risk of damaging gloves

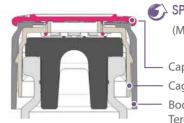


RAYDYLYO, MORE THAN A PRODUCT, A SOLUTION

COMPATIBILITY Lyo Stopper Vials Vials Serum Stopper Serum Stopper ISO 8362-1 ISO 8536-1 ISO 8362-5 ISO 8362-2 ISO 8536-2 **CTO 13 CTO 20 CTO 32**

ADDITIONAL SERVICES

- Delivered with or without stopper
- Sterilization gamma or autoclave
- Packaging options in PE bag or Tyvek
- · Possible delivery in standard or customized nests



SPECIFIC RAW MATERIALS (Medical grades USP Class VI)

Cap Polypropylene (PP) Cage Polycarbonate (PC) Body Polybutylene Terephthalate (PBT)

VALIDATIONS ON VIALS 2R 4R 6R 8R(3)

Description	Reference number
Standard guide for accelerated aging of sterile barrier systems for medical devices	ASTM F 1980-07
Sterilization of health care products — Moist air Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices	ISO 17665-1:2006
Sterilization of health care products — Radiation Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices	ISO 11137-1:2006
Sterilization of health care products — Radiation Part 2: Establishing the sterilization dose	ISO 11137-2:2012
Elastomeric parts for parenterals and for devices for pharmaceuticals use Part 3: Determination of released-particle count	ISO 8871-3:2003
Injection containers and accessories Part 2: Closures for injection vials	ISO 8362-2:2008
Injection containers and accessories Part 5: Freeze drying closures for injection vials	ISO 8362-5:2008
Infusion equipment for medical use Part 2: Closures for infusion bottles	ISO 8536-2:2003
Rubber closures for containers for aqueous parenteral preparations, for powders, and for freeze-dried powders	EP 3.2.9:2008 (Edition 7)

(3) Detailed validation plan of CTO 20 is available on demand.

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NF EN ISO 13485

ISO 15378

ISO 9001

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