

Compact Pre-filled Autodisable Device (cPADs – Uniject)

DCVMN WORKSHOP on New Packaging Technologies, 11 May 2022

Yudha Bramanti PT. BIO FARMA (Persero) Indonesia









WHO WE ARE biocarma

Supported by competence, experience and learning processes for more than 130 years, we are here as part of the struggle, in saving and improving the quality of human life, playing an important role in building the nation's health, so that its existence is maintained from time to time. With the philosophy of "Dedicated to Improve Quality of Life" we are ready to dedicate our hard work to global health security, so that through Biotech for a Better Future provides solutions for global prosperity.





The only vaccine and antisera producer in indonesia



Bio farma vaccine has been used in more than 130 countries in the world



The center of excellence for vaccine and biotechnology research for oic countries

GMP, GLP, GCP, ISO9001, ISO14001, OHSAS 18001, GCG, ERM, CSR Based ISO 26000

Implement integrated system











Hepatitis B Vaccine Recombinant









AUTO-DISABLE PREFILLABLE INJECTION SYSTEM

MILIT NEGATA BIOFORMS BIOFORMS

Features and components

CONFIDENTIAL PT. BIO FARMA (PERSERO)





Prefilled Drug Reservoir

Collapse after use (not refillable and/or usable)

Valve Disc

Between the reservoir and the isolation barrier Prevents refilling

Port

Connects the needle to the reservoir

Double-pointed needle

Allows smooth piercing of the reservoir when activating High patient comfort level



Needle Shield



SPECIFICATION





Uniject 1 mL 23GA Long Needle (1") Uniject 0.5 mL 25GA Short Needle (5/8")

: 0.5 mL Capacity

MateriaL

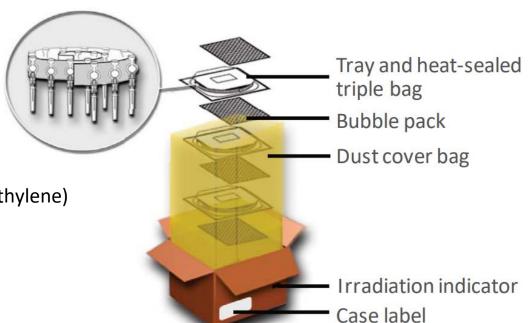
: LLPDE (Linier Low Density Polyethylene) Reservoir

: Low Density Polyethylene Port

: 304 Stainless Steel Needle

Hub : Polystyrene

Needle Shield : Polypropylene



BD Uniject™ System is delivered Sterile (Gamma Radiation), Clean, and Ready to Fill (SCF™)



FILLING PROCESS





Filling machine for uniject

Speed 120 unit/ minutes

Receive sterile, non-pyrogenic reel of the BD Uniject™ System in cartons

Remove carton and outer dust bag; Transfer to immediate class room

Remove outer heat-sealed bag; Transfer bagged reels to sterile area

> Remove inner bags; Load reel on filling machine

Fill and heat-seal the BD Uniject™ System

Accumulate in reel form

Transfer reel out of sterile area

Store reel or continue to packaging operation

PACKAGING DEPARTMENT PT BIOFARMA (PERSERO)

FILL

SEAL <

PACKAGING PROCESS





Labelling & Trimming machines Speed 80-300 unit/ minutes

Apply front label

Print Lot Number ad expiration date

Cut stip into individual units





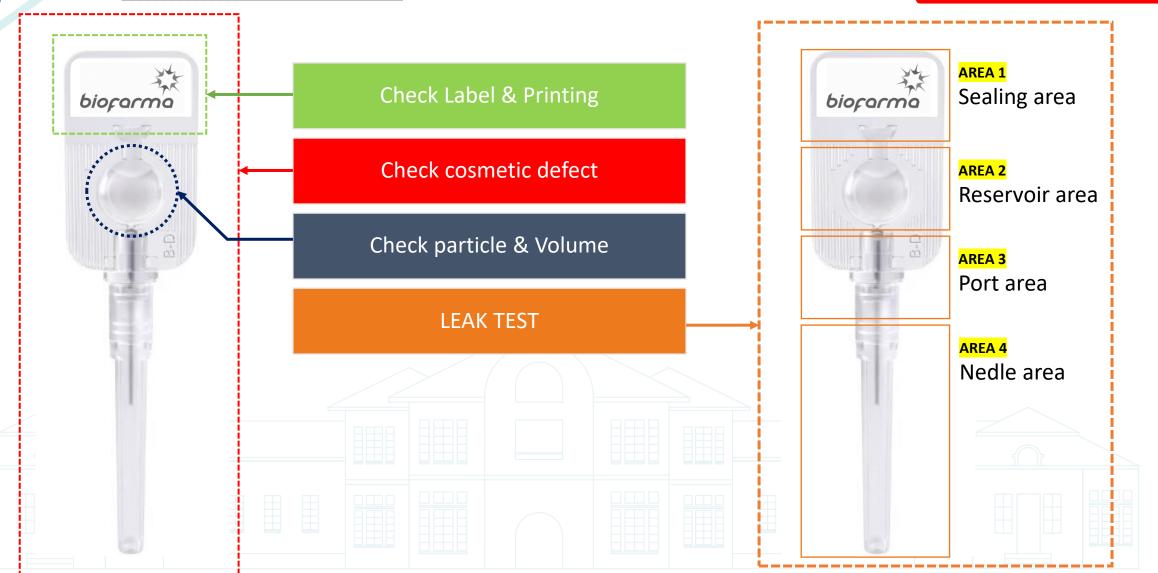
No. Batch Exp. Date



PACKAGING PROCESS

Visual Inspection & Leak Test













PACKAGING PROCESS

Pouching & Packaging



Heat Sealing Machine

Speed 80-300 unit/ minutes

Manual Packaging to Carton Box

VVM label applicator

ADS inserting to foil

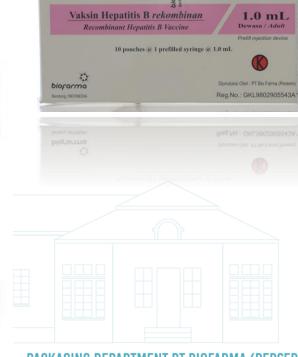
Foil Hot Sealing

Print Lot Number ad expiration date

Cut foil into individual pouch









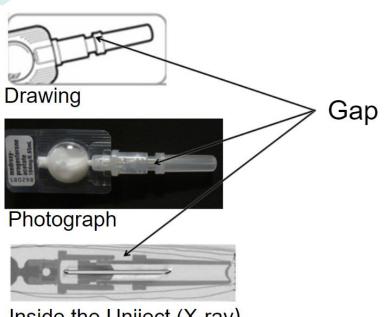




ACTIVATE THE UNIJECT

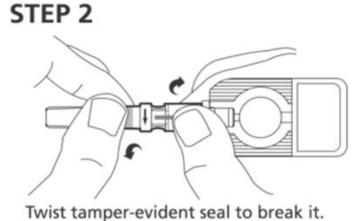
Pouching & Packaging





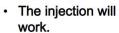


homogenize liquid suspension.

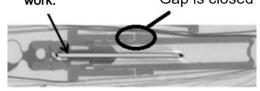


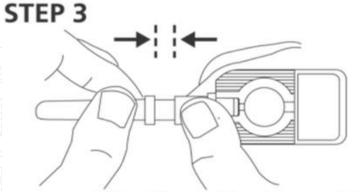


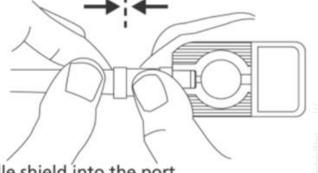
- · The needle is pushed through a barrier that holds the DMPA.
- · The DMPA goes into the needle.



Gap is closed







With a firm, rapid motion, push the needle shield into the port until the gap between the needle shield and port closes completely.

Inside the Uniject (X-ray)

PACKAGING DEPARTMENT PT BIOFARMA (PERSERO)



- Easy to use
- High accuracy dose
- Low volume overfill
- Easy to destruct
- Eases drug delivery
- Contributes to injection safety







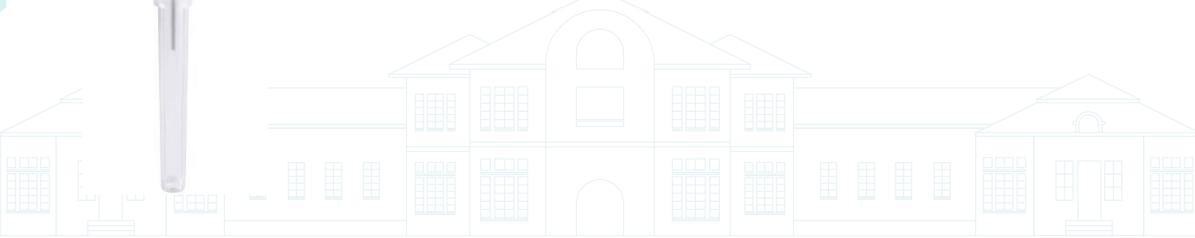
PRICE COMPARISON & ESTIMATION





Blank uniject price % Comparison = COGS Hep B Vaccine

Conclusion= the comparison is **under 25** %





THANK YOU





