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SPIKE FOR SINGLE USE - CHIRAPLUS

SECTION I: PRODUCT DESCRIPTION

1.1 Product name: Spike for single use

1.2 Trade mark: **CHIRAPLUS**

1.3 Product type: sterile, for single use, non-toxic, non-pyrogenic

1.4 Intended purpose: Spike for single use is intended for pharmaceutical preparations - transmit

fluids from one container to another (e.g., transfer medication from the vial to the syringe or from the syringe to the vial), mixing fluids or dissolve dry

substances in the vials.

1.5 Product classification: based on MDR 2017/745, Annex VIII as Class Is, Rule 2

1.6 Compatible devices: Syringes for single use.

> Spike for single use is commonly used with syringe, that can be easily attached because of connectors in accordance with EN ISO 80369-7:2021, in order to withdraw fluids from vial or ampule safely and without air

These products are not accessories / parts of our product Spike for single

use, but are available as product itself in our portfolio.

1.7 Versions:

GREEN type: It is a vented dispensing pin for injection & withdrawing fluids from vials or semi-rigid containers. It has air filter - hydrophobic bacteria filter (0.1µm) - protection against microbial contamination. Ensure easy handling through ergonomic design, simple one-hand handling (Open & Close).

BLUE type: It is vented dispensing pin for filtered injection or filtered withdrawal fluid from vials or semi rigid containers with 0.1µm air filter & 5.0µm fluid (solution) filter - protection against particles during withdrawal. Ensure easy handling through ergonomic design, simple one-hand handling (Open & Close).

RED type: It is vented dispensing pin for filtered injection or filtered withdrawal fluid from vials or semi rigid containers with 0.1µm air filter & 5.0µm fluid (solution) filter - protection against particles during withdrawal. Ensure easy handling through ergonomic design, simple one-hand handling (Open & Close). This variant is used for handling of chemotherapeutics as its housing material is compatible with chemo medicines.





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1.8 Technical data:

Material: The parts of spike for single use are made of medically harmless materials.

Spike (body) / spike holder

Spike (body) / spike holder ("chemo" = red type)

- air filter (0.1µm)
- fluid (solution) filter (5.0μm)

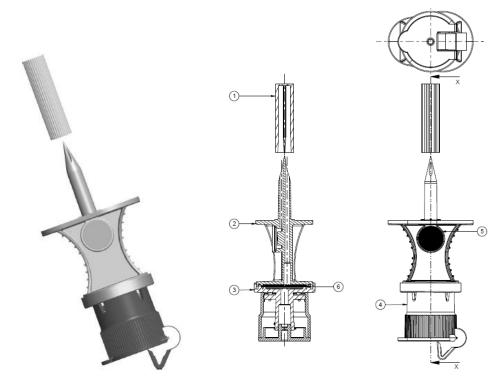
Snap cap

Spike cover

Product is PVC free / LATEX free / DEHP free.

- ABS (Acrylonitrile Butadiene Styrene)
- Copolymer ETT
- PTFE (Polytetrafluorethylene) membrane
- PET (Polyethylene terephthalate)
- PP (Polypropylene)
- PP (Polypropylene)

1.9 Design:



Spike cover (1): protect tip of spike, contamination during handling is preventing, natural

color / transparent, inner diameter 4,0+0/-0,1mm, length 22,5+/-0,1mm

Spike (body) (2): has sharp and damage free tip used for insertion into rubber stopper of vial

during withdrawal of fluids, has ribs for proper griping

Spike holder (3): 6% cone comply with EN ISO 80369-7:2021, positioned between snap cap

and spike (body), length 15,1+/-0,1mm

Snap cap (4): protect taper of spike holder, contamination preventing, open / close

system

Air filter (5): white PTFE membrane filter 0.1µm integrated into the spike body,

hydrophobic bacteria filter for preventing entry of microorganisms and to



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lower negative pressure while removing contents from the vial. It does not

leak at 1,0 bar air pressure

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Fluid filter (6): PET hydrophilic filter 5.0µm

Color: green / blue / red

1.10 Sterilization: Spikes for single use are sterilized by ethylene oxide in its final package

using validate sterilization process (EN ISO 11135:2014) insuring SAL at least

10⁻⁶ (EN 556-1:2001).

1.11 Production: Production takes place in clean rooms class ISO7 according to EN ISO

14644-1:2015.

SECTION II: PERFORMANCE SPECIFICATION

2.1 Dimensions: Spike holder: length 15,1+/-0,1mm

Spike cover: inner diameter 4,0+0/-0,1mm, length 22,5+/-0,1mm

Air filter: PTFE membrane filter 0.1μm Fluid filter: PET hydrophilic filter 5.0μm

2.2 Packaging:

Product	REF code CHIRANA	Blister dimensions (mm)	Pieces in Box	Box dimensions (mm)	Pieces in Carton	Carton dimension (mm)
Infusion spike (red)	CHIS01		100	215 x 205 x 160	1 000 (10 x 100)	850 x 450 x 225
Infusion spike (blue)	CHIS02	105 x 55				
Infusion spike (green)	CHIS03				(10 × 100)	

The package of the Spike for single use and its integrity ensures the sterility and usability for the period of 5 years provided the transport and storage condition.

On the lower part of package is heat-weld able paper which allows the passage of the sterilized ethylene oxide. On the upper part of package is transparent shapeable foil, which is welded together with the laminated paper on its circumference.

SECTION III: PRODUCT IDENTIFICATION

3.1 Identification of product (LOT):

The product is identified by product name, type (product code) and lot number (LOT). Lot number of the products and production date can be defined following:

1XXXXYYM or **3XXXXYYM**

where: first number 1 or 3 is identification number of production line

XXXX is serial number of LOT

YY last number of year

M is month of production form the table:



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Month	Code	Month	Code
January	А	July	G
February	В	August	Н
March	С	September	K
April	D	October	L
May	Е	November	M
June	F	December	N

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3.2 Date of production in this format: YYYY-MM

where: YYYY is year of production

MM is month of production (01-12)

SECTION IV: TRANSPORT AND STORAGE

4.1 Transport condition:

The transport of the packed product can be carried out only in covered, clean and dry means of transport at the temperature +5°C - +35°C. Take care of warning data marked on the package during the transport.

4.2 Storage conditions:

The Spike for single use should be stored in dry, ventilated, dust-free rooms which are protected from the straight effect of the solar radiation at the temperature +5°C - +35°C. No organic solvents and chemicals are allowed to be stored with the them.

SECTION V: DELIVERY, GUARANTEE

5.1 Certificate of quality:

With each delivery it is possible (according to customer requirement) to issue Certificate of quality.

Deliveries are inspected after agreement with the customer by statistical acceptance according to ISO 2859-1:1999.

5.2 Shelf-life:

The manufacturer grants the guarantee for the period of usability of the product for 5 years since the production date, provided the prescribed storage and transport conditions according to point IV.

Period of usability (expiration) is marked on packaging with form:

X YYYY - MM

where: YYYY is last year of usability

MM is the last month of usability (01-12)



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MDR 2017/745

EN ISO 13485:2016

SECTION VI: RELATED STANDARDS

EN ISO 14971:2019

EN ISO 80369-7:2021

EN ISO 11135:2014

EN ISO 14644-1:2015

EN ISO 15223-1:2021

EN ISO 11607-1:2020

ISO 2859-1:1999

Approved by: Broska Rastislav (Quality manager)

Approved by: Myjavec Pavol (Designer)

Elaborated by: Klbečková Zdenka (Regulatory Affairs Manager)

We supply values for life

CHIRAPLUS™ Spikes | Injection ports | Stoppers



- ✓ spikes intended for comfortable and safe drug manipulation
- ✓ ports offer additional drug administration when applied with other devices
- combistopper and stopper give a short-term option for storage or transfer of solution

ltem	Pieces per Box	Pieces per Case	Item Code
Infusion spike RED air			
$0.2 \ \mu m + 5 \ \mu m$ solution filter	25	400	CHIS01
Infusion spike BLUE			
air 1,2 μm + 5 μm solution filter	25	400	CHIS02
Infusion spike GREEN air 1,2 μm filter	25	400	CHIS03
Transflo spike	100	1000	CHTS01
Needle free injection port	50	2500	CHNF01
Injection port	100	5000	CHIP01



CHIRAPLUS™ Spikes | Injection ports | Stoppers

Item	Pieces per Box	Pieces per Case	Item Code
Combistopper RED	100	5000	CHCS01
Combistopper BLUE	100	5000	CHCS02
Combistopper WHITE	100	5000	CHCS03
Stopper Luer lock	100	5000	CHLL01

✓ intended for range of application in IV administration

