



### GlaxoSmithKline Manufacturing S.p.A.

**GMS Verona Italy** 

Product Packaging Brief

#### **GSK - Verona**

#### Introduction

The GSK Verona site is situated on the edge of the historic city of Verona, approximately 150 km from Milan in northern Italy.

The site specialises in the manufacture of sterile Cephalosporin finished dose form products for global markets. It has modern facilities for the large-scale manufacture of vials from aseptic powder fill.

<ul> <li>Key Capabilities</li> <li>Sterile powder fill to vials</li> <li>Sterile powder fill to monovials for global markets</li> <li>Sterile powder fill to Add-Vantage vials for USA*</li> <li>Flexible packaging lines for global supply</li> <li>*(Add-Vantage is a registered trade mark of Abbott USA).</li> </ul>	Key Regulatory Approvals USA - FDA Europe Japan Australia Rest of World GSK Verona is a global supply site and thus maintains global regulatory approvals.
--	---

#### **Overview**

The Verona site is a global centre of excellence for the sterile manufacture of powder fill Cephalosporin vials. The site has capabilities to aseptic powder fill to standard vials as well as Add-Vantage (subject to negotiation of the relevant 3rd Party IP technology) and Monovial devices.

It has an excellent quality record in this very challenging environment and considerable experience gained from working within GSK, as well as with contract manufacturing for third party customers.

The Verona Site also provides a high quality, secure and costcompetitive option for Cephalosporin finished dose supply.

This brochure has been prepared to provide information on Verona Manufacturing site and its capabilities, both to undertake contract manufacturing work for third party customers and give a good knowledge of the site to GSK customers.

3

# Vial

17 ml

Verona is currently filling 17 ml vials with following dosages:

- 250 mg
- 500 mg
- 750 mg
- 1 g

17 ml can be packed with 3 ml ampoule

Types of packaging:

- x 1 (with or without ampoule)
- x 10 (without ampoule)
- x 25 (without ampoule)









#### Marsure ceturoximum prozeck do sporządzenia roztworu do wstrzykiwań cotycych i ukcu do ziyłego: 1,55 g No fiele Nako zawiera 1,5 g ceturokymu w postaći cefurokymu sodowego. Pozwolenie nr: R/0699 CazoSmithKline

## Vial

\_\_\_\_74@\_\_\_\_\_

Verona is currently filling 26 ml vials with following dosages:

- 1 g
- 1,5 g

26 ml can be packed with 10 ml ampoule

Types of packaging:

- x 1 (with or without ampoule)
- x 10 (without ampoule)
- x 25 (without ampoule)



# Vial 60 / 77 / 127 ml

Types of packaging for big vial size:

- 60 ml x 1 & x 10
- 77 ml x 1
- 127 ml x 1; x 6; x 10









# Monovial

Vials can be pack with a special device used in hospitals called "Monovials"

The device is available for all markets

Monovial is filled in a 22 ml vial x 1

The presentation can also be packed with an infusion bag



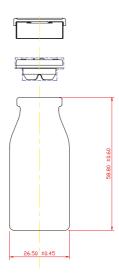
#### **Primary Pack Standard Vial**

# Vials Components

**Vial** - Verona uses moulded vial for infusion and injection products. As indicated in USP method or European Pharmacopeia glass is type 3 clear hydrolityc resistance.

**Stopper** - Verona uses no coated, bromo butyl gray rubber stopper for infusion products.

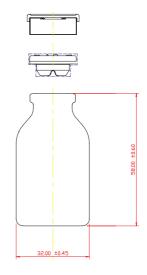
**Closure** - Vials are closed with snap-off closure. It is tamper evident closure composed by aluminium and plastic parts for vials stoppered with elastometric plugs.



Vial 17 ml ISO-DIN 8362 Stopper Diameter 20 mm Closure

Aluminium closure Ø 20 mm with coloured flip-off

8



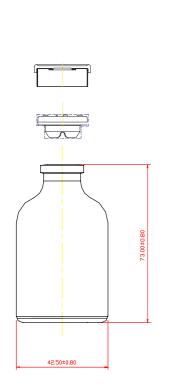
Vial 26 ml ISO-DIN 8362

Stopper Diameter 20 mm Closure Aluminium closure Ø

20 mm with coloured flip-off

#### **Primary Pack Standard Vial**

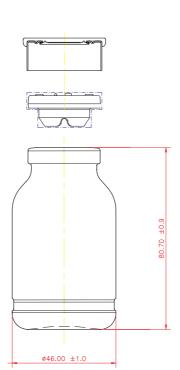
## **Vials Components**



Vial 60 ml ISO-DIN 8362

**Stopper** Diameter 20 mm

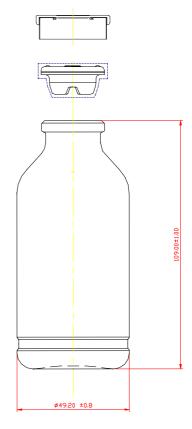
**Closure** Aluminium closure Ø 20 mm with coloured flip-off



Vial 77 ml ISO-DIN 8536

**Stopper** Diameter 32 mm

**Closure** Aluminium closure Ø 32 mm with coloured flip-off



Vial 127 ml ISO-DIN 8536

**Stopper** Diameter 28 mm

Closure Aluminium closure Ø 28 mm with coloured flip-off

9

### **Primary Pack Monovial**

# **Device Components**

#### Transfer set:

Capsule Needle Guard: transparent polymer resin Ektar MB DA003 Needle: stainless steel, anticoring treated Sealing ring: bromo butyl rubber Cup: low density translucide polyethylene resin Riblene FC20

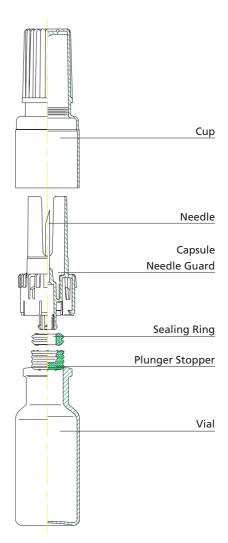
#### **Plunger stopper:**

Bromo butyl rubber (ceftazidime) Coated or non coated bromo butyl rubber (cefuroxime)

#### Vial:

10

Glass clear type 1 as for USP XXII and Ph European Brimfull capacity 22ml



# Site Business Contacts

# **GMS Logistics Manager**

GlaxoSmithKline Manufacturing S.p.A. Via Fleming, 2 - 37135 Verona - Italy Tel. +39-045-9219497 Fax. +39-045-9218113

# **Site Director**

GlaxoSmithKline Manufacturing S.p.A. Global Manufacturing & Supply Division Tel. +39-045-9219629 Fax. +39-045-9218108