This part outlines the scientific assessment and knowledge about this product at the time of prequalification. Updates to this information are included in parts 1 to 5 and 8 of this WHOPAR.

SCIENTIFIC DISCUSSION

Name of the Finished Pharmaceutical Product	[RH083 trade name]*
Manufacturer of Prequalified Product	Steril-Gene Life Sciences (P) Ltd
	45, Mangalam Main Road
	Mangalam Village
	Villianur Commune
	Puducherry- 605110
	India
Active Pharmaceutical Ingredient(s) (API)	Oxytocin
Pharmaco-therapeutic group	Posterior pituitary lobe hormones
(ATC Code)	(H01BB02)
Therapeutic indication	Indicated in women for the active management of the third stage of labour, prevention and treatment of postpartum haemorrhage and for managing pregnancy complications where uterine contraction is clinically desirable

1. Introduction

[RH083 trade name] is indicated for women for the active management of the third stage of labour, prevention and treatment of postpartum haemorrhage and for managing pregnancy complications where uterine contraction is clinically desirable.

2. Assessment of quality

The assessment was done in accordance with the requirements of WHO's Guidelines on submission of documentation for a multisource (generic) finished pharmaceutical product for the WHO Prequalification of Medicines Programme: quality part.

Active pharmaceutical Ingredient (API)

A CEP (Certificate of Suitability) issued by the EDQM was submitted, ensuring good manufacturing control and applicability of the Ph.Eur monograph to control quality of the API.

Other ingredients

Other ingredients include ethanol, chlorobutanol, sodium acetate trihydrate, sodium chloride, acetic acid glacial and water for injections. No excipient with the risk of transmitting TSE/BSE is used.

_

^{*} Trade names are not prequalified by WHO. This is the national medicines regulatory authority's responsibility.

Page 1 of 3

Finished pharmaceutical product (FPP)

Pharmaceutical development and manufacture

The multisource Oxytocin 10 IU/mL Solution for Injection is a clear colourless solution free from visible particulate contained in a clear type I glass ampoule. The ampoules should be stored in a refrigerator (2°C to 8°C) in the original cartons protected from light.

The objective of the formulation development was to develop a finished product formulation equivalent to the WHO recommended comparator product, Syntocinon® 10 IU/ml injection (Novartis, U.K). The ingredients selected are the same as those used in the comparator, expect for sodium chloride. The comparator product is hypotonic while the multisource product has been formulated to the physiological tonicity with the inclusion of sodium chloride. Since this is a SVP product, the differences in tonicity is not regarded an issue with respect to the safety or quality of the product.

The manufacturing process is a standard aseptic process, conducted under appropriate conditions, including the steps of mixing and dissolving all ingredients and water for injection, sterile filtration, followed by filling into empty sterile ampoules and sealing under nitrogen. Satisfactory operating parameters and inprocess controls have been defined at each stage of manufacture. Process validation have been conducted on 3 consecutive batches.

Specifications

The finished product specifications are pharmacopoeial based and include tests for description, identification of the API (TLC and HPLC), acidity (pH), extractable volume, clarity of solution, colour of solution, assay of chlorobutanol (HPLC), assay of oxytocin (HPLC), particulate matter (visible and subvisible), sterility, related substances (HPLC), bacterial endotoxins and limit of benzene (GC).

Stability testing

Stability studies have been performed at $2^{\circ}\text{C} - 8^{\circ}\text{C}$ as long-term storage conditions and for six months at $25^{\circ}\text{C}/60\%$ RH as accelerated conditions. Based on the available stability data, the proposed shelf life and storage conditions of the unopened ampoules as stated in the SmPC are acceptable. Oxytocin is light sensitive, thus the product has to be protected from light.

Conclusion

The quality part of the dossier is accepted.

3. Assessment of bioequivalence

According to the WHO guidelines on registration requirements to establish interchangeability for multisource (generic) pharmaceutical products no bioequivalence study is necessary, when the pharmaceutical product is to be administered parenterally (e.g. intravenously, subcutaneously or intramuscularly) as an aqueous solution containing the same API in the same molar concentration as the comparator product and the same or similar excipients in comparable concentrations as in the comparator product.

These conditions are fulfilled for [RH083 trade name].

4. Summary of product safety and efficacy

[RH083 trade name] has been shown to conform to the same relevant standards of quality, efficacy and safety as those required of the comparator product. According to the submitted data on quality [RH083 trade name] is pharmaceutically and therapeutically equivalent and thus interchangeable with the

comparator product Syntocinon® (oxytocin 10 units/ml, solution for injection, Novartis) for which benefits have been proven in terms of clinical efficacy.

The clinical safety of this product is considered to be acceptable when guidance and restrictions as stated in the Summary of Product Characteristics (SmPC) are taken into account. Reference is made to the SmPC (WHOPAR part 4) for data on clinical safety.

5. Benefit risk assessment and overall conclusion

Quality

Physicochemical and biological aspects relevant to the uniform pharmaceutical characteristics have been investigated and are controlled in a satisfactory way. The quality of this product is considered to lead to an acceptable clinical performance when [RH083 trade name] is used in accordance with the SmPC.

Bioequivalence

N/A

Efficacy and Safety

Regarding clinical efficacy and safety, [RH083 trade name] is considered effective and safe to use when the guidance and restrictions presented in the SmPC are taken into consideration.

Benefit Risk Assessment

Based on the WHO's assessment of data on quality, bioequivalence, safety and efficacy the team of assessors considered that the benefit—risk profile of [RH083 trade name] was acceptable for the indications shown in the SmPC and has advised that the quality, efficacy and safety of [RH083 trade name] allow inclusion of [RH083 trade name], manufactured at Steril-Gene Life Sciences (P) Ltd, 45 Mangalam Main Road, Mangalam Village, Villianur Commune, Puducherry- 605110 India, in the list of prequalified medicinal products.