

## WHO Prequalification Programme WHO PUBLIC ASSESSMENT REPORT (WHOPAR)

### Actrapid Penfill <sup>1</sup>

International Nonproprietary Name (INN):  
Human insulin 100 IU/ml solution for injection

#### Abstract

Actrapid Penfill 100 IU/ml solution for injection manufactured at Novo Nordisk A/S, Bagsværd, Denmark was submitted to be considered for prequalification in 2022 when the product was licensed / registered in Europe and subsequently accepted for inclusion in the WHO list of prequalified products for the WHO-recommended indications, treatment of diabetes mellitus, on the 27 September 2022.

The “WHO Pilot Procedure for Prequalification of BTPs: human insulin”<sup>2</sup> defines specific evaluation mechanisms for products approved by regulatory authorities, which apply similar stringent standards for quality, safety and efficacy as those required by WHO.

The prequalification of this product by the WHO Prequalification of Medicines Programme is based on the approval by the European Medicine Agency (<https://www.ema.europa.eu/en>) in line with the “WHO Guidelines on submission of documentation for the pilot procedure for prequalification of human insulin approved by stringent regulatory authorities – abridged assessment pathway”<sup>3</sup>.

Hence, no assessment of the data underlying this approval has been undertaken within the WHO Prequalification Team: Medicines (PQTm). However, according to the above-mentioned guideline WHO requested additional data for the safe use of the product in regions relevant for prequalified products and this information is included in part 6b of this WHOPAR. In order to safeguard product quality throughout its entire intended shelf-life, WHO assessed the evidence to verify the adherence to the principles outlined in the most recent version of the WHO guidelines on the international packaging and shipping of vaccines<sup>4</sup>, also partially applicable to other biotherapeutic products, to demonstrate suitability of the packaging to regions outside of climatic zone II. WHO assessed the packaging procedures for international shipments, the validation protocols and reports of the shipping boxes used for supply of the prequalified product.

In addition, the adequacy of the procedures for handling quality complaints and recalls with the inclusion of restrictions on distribution or recalls of the product in regions relevant for prequalified products was evaluated by the assessment team.

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<sup>1</sup> Trade names are not prequalified by WHO. This is the National Medicines Regulatory Authority’s responsibility. Throughout this WHOPAR the proprietary name is given as an example only.

<sup>2</sup> [https://extranet.who.int/pqweb/sites/default/files/documents/01\\_Pilot\\_PQ\\_procedure\\_insulin\\_Feb2020.pdf](https://extranet.who.int/pqweb/sites/default/files/documents/01_Pilot_PQ_procedure_insulin_Feb2020.pdf)

<sup>3</sup> [https://extranet.who.int/pqweb/sites/default/files/documents/03\\_GLs\\_Submission\\_SBP\\_Pilot\\_AbridgedPathway\\_insulinFeb2020.pdf](https://extranet.who.int/pqweb/sites/default/files/documents/03_GLs_Submission_SBP_Pilot_AbridgedPathway_insulinFeb2020.pdf)

<sup>4</sup> [https://apps.who.int/iris/bitstream/handle/10665/69368/WHO\\_IVB\\_05.23\\_eng.pdf?sequence=1](https://apps.who.int/iris/bitstream/handle/10665/69368/WHO_IVB_05.23_eng.pdf?sequence=1)

Furthermore, in accordance with the relevant guideline<sup>3</sup>, a WHO prequalification-specific addendum to the Risk Management Plan (RMP) was submitted and assessed by the team of assessors. With this addendum the Applicant outlined their approach how to identify the risks of the product and which measures will be applied to monitor and minimize such risks, taking into consideration potential differences in the health care setting that may change the benefit/risk profile defined within the SRA settings.

Country-specific adaptation and implementation of the RMP as detailed within the PQ-specific addendum to the RMP should be put in place by the Applicant.

This WHOPAR refers to the information available at the approving stringent regulatory authority in terms of the assessment of the quality, efficacy and safety as well as steps taken after the prequalification.

WHOPAR part		Reference <sup>5</sup>
Part 1	Summary for the Public	<a href="https://www.ema.europa.eu/en/documents/overview/actrapid-epar-summary-public_en.pdf">https://www.ema.europa.eu/en/documents/overview/actrapid-epar-summary-public_en.pdf</a>
Part 3	Patient information Leaflet	<a href="https://www.ema.europa.eu/en/documents/product-information/actrapid-epar-product-information_en.pdf">https://www.ema.europa.eu/en/documents/product-information/actrapid-epar-product-information_en.pdf</a>  EMA endorsed Patient Information Leaflet for use outside EU (including additional storage option): <a href="https://www.ema.europa.eu/en/documents/outside-eu-product-information/actrapid-product-information_en.pdf">https://www.ema.europa.eu/en/documents/outside-eu-product-information/actrapid-product-information_en.pdf</a>
Part 4	Summary of Product Characteristics	<a href="https://www.ema.europa.eu/en/documents/product-information/actrapid-epar-product-information_en.pdf">https://www.ema.europa.eu/en/documents/product-information/actrapid-epar-product-information_en.pdf</a>  EMA endorsed SmPC for use outside EU (including additional storage option): <a href="https://www.ema.europa.eu/en/documents/outside-eu-product-information/actrapid-product-information_en.pdf">https://www.ema.europa.eu/en/documents/outside-eu-product-information/actrapid-product-information_en.pdf</a>
Part 5	Labelling	<a href="https://www.ema.europa.eu/en/documents/product-information/actrapid-epar-product-information_en.pdf">https://www.ema.europa.eu/en/documents/product-information/actrapid-epar-product-information_en.pdf</a>  EMA endorsed Labelling for use outside EU (including additional storage option): <a href="https://www.ema.europa.eu/en/documents/outside-eu-product-information/actrapid-product-information_en.pdf">https://www.ema.europa.eu/en/documents/outside-eu-product-information/actrapid-product-information_en.pdf</a>
Part 6a	EPAR-Scientific Discussion	<a href="https://www.ema.europa.eu/en/documents/scientific-discussion/actrapid-epar-scientific-discussion_en.pdf">https://www.ema.europa.eu/en/documents/scientific-discussion/actrapid-epar-scientific-discussion_en.pdf</a>
Part 8	Steps taken after the Authorisation	<a href="https://www.ema.europa.eu/en/documents/procedural-steps-after/actrapid-epar-procedural-steps-taken-scientific-information-after-authorisation_en.pdf">https://www.ema.europa.eu/en/documents/procedural-steps-after/actrapid-epar-procedural-steps-taken-scientific-information-after-authorisation_en.pdf</a>

Parts 2, 6b and 7 of the WHOPAR for Actrapid Penfill are included here.

<sup>5</sup> <https://www.ema.europa.eu/en/medicines/human/EPAR/actrapid>

**Summary of Prequalification Status for:  
Actrapid Penfill 100 IU/ml Solution for injection:**

<b>Initial acceptance</b>		
	Date	Outcome
<b>Status on PQ list</b>	27 Sep 2022	listed
<b>Dossier evaluation</b>		
Verification	8 Aug 2022	MR
Quality	20 Sep 2022	MR
Pharmacovigilance	20 Sep 2022	MR
<b>Inspection Status</b>		
<i>GMP (re-)inspection</i>		
<i>Drug Substance</i>		NA
<i>Drug Product</i>		NA
<i>GCP(re-)inspections</i>		NA

MR: meets requirements

N/A: Not Applicable, not available

The table represents the status of relevant completed activities only.

If you require any additional information, please send the request to WHO PQ Team Lead Medicines Assessment
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