

Porcine Glucagon Reference standard

Cat. No. GCG-51P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The use was subsequently extended to cover immunoassays the following year. Further details of this Standard and of its collaborative study are given in Annable et al (1974).
Species	Pig
Enzyme Unit	Each ampoule contains 1.49 INTERNATIONAL UNITS (by definition).
Usage	For practical purposes each ampoule contains the same amount of the same materials. Dissolve the total contents in a known amount of buffer solution. No attempt should be made to weigh portions of the freeze-dried powder. When glucagon is dissolved in alkaline solution at pH 11-12, it is rapidly converted into monodesamidoglucagon. The biological activity of this degradation product in rabbits is 60% of that of unconverted glucagon. When glucagon is dissolved in acid solution to the concentration of 1mg/ml or more, it will aggregate to produce gels and ultimately insoluble fibrils. When the contents of an ampoule are dissolved in 2ml of distilled water, the pH of the solution is about 4 and the solution remains cloudy. When the pH is lowered to 3.0, glucagon completely dissolves and can then be diluted to a convenient concentration, eg. 100µg glucagon per ml (ie. the contents of one ampoule diluted to 15ml). It is therefore recommended that for short-term use glucagon is stored in diluted frozen solutions at concentrations about 100µg/ml and that thawing and freezing be avoided. The material has not been sterilized and contains no bacteriostat. The ampouled solution was lyophilized, and after secondary desiccation, the ampoules containing pure dry nitrogen were sealed by heat fusion of

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the glass and have since been stored at –20°C in the dark. **ACTIVITY OF AMPOULE CONTENTS** The activity of the ampouled preparation was assessed in a collaborative study in which 3 laboratories in three countries participated. In total, 30 in vivo bioassays (in three different species) were submitted, and the assigned potency is based on the overall study mean.

Notes

This preparation is not for administration to humans. The material is not of human or bovine origin. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratory's safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

Stability

They remain valid with the assigned potency and status until withdrawn or amended. Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label. In addition, once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.

Storage

For long-term storage, it is recommended that the unopened ampoules be stored at - 20 °C in the dark. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.