For the use only of a Registered Medical Practitioner or Hospital or Laboratory SBiocon Insulin Glargine Injection (rDNA) Basalog INE®

बेसल्लौग वन

100 IU/mL, 3 mL Prefilled Pen

COMPOSITION Each mL of prefilled pen contain

Insulin glargine (rDNA) 100 IU

m-cresol 2.7 mg (as preservative) Excipients q.s.

(Each 100 units is equivalent to 3.64 mg insulin glargine) For a full list of excipients, see List of Excipients section.

PHARMACEUTICAL FORM

 Solution for injection in a prefilled pen. • Clear colourless solution.

PHARMACOLOGICAL PROPERTIES

Pharmacotherapeutic group: Drugs used in diabetes, insulins and analogues for injection, long-acting. ATC code: A10AE04

Pharmacodynamic Properties

Insulin glargine is a recombinant human insulin analogue designed to exhibit low solubility at neutral pH. It is completely soluble at the acidic pH of the injection solution (pH 4). Once injected into the subcutaneous tissue, the acidic solution is neutralised to form micro-precipitates from which small amounts of insulin glargine are continuously released, providing a smooth, peakless, predictable concentration vs time profile with a prolonged duration of action.

Insulin receptor binding: Insulin glargine is very similar to human insulin with respect to insulin receptor binding kinetics and can therefore, be considered to exert a similar effect via the insulin receptor.

In clinical pharmacology studies, intravenous insulin glargine and human insulin have shown to be equipotent when given at the same doses. As with all insulins, the time course of action of insulin glargine may be affected by physical activity and other variables. Mechanism of Action

The primary activity of insulin, including insulin glargine, is regulation of glucose metabolism. Insulin and its analogues lower blood glucose levels by stimulating peripheral glucose uptake, especially by skeletal muscles and fat, and by inhibiting hepatic glucose production. Insulin inhibits lipolysis in the adipocyte, inhibits proteolysis and enhances protein synthesis.

Pharmacokinetic Properties

Absorption None

Distribution

After subcutaneous injection of insulin glargine in healthy subjects and diabetic patients, the insulin serum concentrations indicated a slower and much more prolonged absorption and a lack of a peak in comparison to human NPH insulin. Concentrations were, thus, consistent with the time profile of the pharmacodynamics activity of insulin glargine. After subcutaneous injection of 0.3IU/kg insulin glargine in diabetic patients, a flat concentration-time glargine in diabetics patients, a flat concentration-time profile has been monstrated; this is also reflected in the wide range of tmax values (between 1.5 and 22.5 hours compared to NPH (2.5 to 10.0 hours). When given intravenously, the concentration profiles and the apparent elimination half-life of insulin glargine and human insulin were comparable. There were no relevant differences in serum insulin levels after abdominal deltoid or thigh administration of insulin glargine. Insulin glargine has less-intra and inter-individual variability in pharmacokinetic profile compared to human ultralente insulin.

Metabolism

After subcutaneous injection of insulin glargine (reference product) in healthy subjects and diabetics patients, insulin glargine is rapidly metabolized at the carboxy terminus of the Beta chain with formation of two active metabolites M1 (21AGly-insulin) and M2 (21A-Gly-des-30B-Thr-insulin). In plasma, the principal circulating compound is the metabolites M1. The exposure to M1 increases with the administered dose of insulin glargine (reference product). The pharmacokinetics and pharmacodynamics findings indicate that the effect of the subcutaneous injection with insulin glargine (reference product) is principally based on exposure to M1 insulin glargine and the metabolite M2 were not detectable in the vast majority of subjects and, when they were detectable their concentration was independent of administered dose of insulin glargine (reference product).

Special Populations

Elimination

Age and gender: Information on the effect of age and gender on the pharmacokinetics of insulin glargine is unavailable. However, in large clinical trials, subgroup analysis based on age and gender did not indicate any difference in safety and efficacy in insulin glargine treated patients over the entire study population. The same holds true for NPH treated patients

Smoking : In clinical trials subgroup analysis showed no difference in safety and efficacy of insulin glargine between the group of smokers and the total study population. The same is true for NPH insulin.

Obesity. In clinical trials subgroup analysis based on BMI showed no differences in safety and efficacy of Insulin glargine in the group of patients compared to the total study population. The same is true for NPH insulin.

Paediatric population

Pharmacokinetics in children aged 2 to less than 6 years of age with type 1 diabetes mellitus was assess in one clinical study. Plasma 'trough' levels of insulin glargine and its main metabolites M1 and M2 were measured in children treated with insulin glargine, revealing plasma concentration patterns similar to adults, and providing no evidence for accumulation of insulin glargine or its metabolites with chronic dosing.

Clinical Studies

Efficacy of Biocon's insulin glargine was assessed in a phase III study conducted by Biocon Limited to establish safety and non-inferiority (in comparison to reference product), with respect to decrease in HbA1C in patients with type 1 diabetes mellitus.

The results established non-inferiority of Biocon's insulin glargine compared to the reference product, with respect to change in HbA1c. The changes in FPG, PPG and seven-point glucose were comparable between the two study arms. The proportion of patients who achieved target HbA1c <7% was comparable between groups. Mean insulin dose was also comparable between the two arms. Compliance was good during the study, with average compliance >98% for both basal and pre-meal soluble insulin which was comparable for both study

Overall the two study treatments were comparable with respect to efficacy.

A 24-week parallel group study was conducted in 125 children with type 1 diabetes mellitus aged 1 to 6 years (61 children from 2 to 5 in the insulin glargine group and 64 children from 1 to 6 in the NPH insulin group), comparing insulin glargine given once daily in the morning to NPH insulin given once or twice daily as basal insulin. Both groups received bolus insulin before meals. Comparison of the two treatment regimens in terms of hypoglycemia was the primary objective of the study. The composite primary outcome consisted of continuous glucose monitoring excursions below 70mg/dL (3.9mM), confirmed by fingerstick blood glucose (FSBG) measurements, other FSBG measurements <70mg/dL; and episodes of symptomatic hypoglycemia. The primary aim of demonstrating non-inferiority of insulin glargine to NPH in this composite outcome did not meet the non-inferiority margin. However, the rate of symptomatic hypoglycemia events is the most commonly used and clinically relevant component of the composite outcome. Rates of symptomatic hypoglycemia were numerically lower in the insulin glargine group, both overall (25.5 episodes per patient year, vs 33.0 for NPH) and overnight (2.38 episodes per patient year, vs 3.65 for NPH). Glycohaemoglobin and glucose variabilities were comparable in both treatment groups. No new safety signals were observed in this trial.

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In a randomised, controlled clinical study, paediatric patients (age range 6 to 15 years) with type 1 diabetes (n=349) were treated for 28 weeks with a basal-bolus insulin regimen where regular human insulin was used before each meal. Insulin glargine was administered once daily at bedtime and NPH human insulin was administered once or twice daily. Similar effects on glycohaemoglobin and the incidence of ymptomatic hypoglycaemia were observed in both treatment groups, however fasting plasma glucose decreased more from baseline in the insulin glargine group than in the NPH group. There was less severe hypoglycaemia in the insulin glargine group as well. One hundred

and forty-three patients treated with insulin glargine in this study contin study with mean duration of follow up to 2 years. No new safety signals we Biocon's Efficacy Data

Efficacy of Biocon's insulin glargine was assessed in a phase 3 study cond comparison to reference product), with respect to decrease in glycosylated

The results established non-inferiority of Biocon's insulin glargine compare changes in fasting plasma glucose (FPG), post-prandial glucose (PPG) an The proportion of patients who achieved target HbA1c <7% was comp between the two arms. Compliance was good during the study, with aver which was comparable for both study arms.

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Biocon's Safety Data

In a clinical study conducted by Biocon Limited, the adverse events we reference product. Hypoglycaemic events were the most common adverse pyrexia was the next most common adverse event with three events in ea comparable between the treatment groups. The abnormalities in the labo and all of them were considered not clinically significant. Antibodies a frequency as compared to the reference product.

Preclinical Safety Data

Nonclinical data reveal no special hazard for humans based on conve genotoxicity, carcinogenic potential and toxicity to reproduction. Anima

CLINICAL PARTICULARS

Therapeutic Indications For the treatment of adults, adolescents and children of 2 years or above w Posology and Method of Administration

BASALOG One[®] contains insulin glargine, an insulin analogue, and has a nsulin glargine should be administered once daily at any time but at the sa רhe insulin glargine dose regimen (dose and timing) should be individuall الما الما الما الما الما الما الما ا given together with orally active antidiabetic medicinal products. Elderly Population (\geq 65 years old)

In the elderly, progressive deterioration of renal function may lead to a stea

Renal Impairment In patients with renal impairment, insulin requirements may be diminished

Hepatic Impairmen In patients with hepatic impairment, insulin requirements may be dimir metabolism.

Paediatric Population

The safety profile for patients <18 years of age is similar to the safety profil n patients below 2 years of age. Due to limited experience on the efficacy and safety of insulin glargine in

used in this age group under careful medical supervision.

No clinical study safety data are available in children below 2 years of age.

Initiation of Insulin Glargine Therapy The recommended starting dose of insulin glargine in patients with typ nsulin requirements. Short-acting, pre-meal insulin should be used to satis

Based on published information the recommended starting dose on an av the patient's need to a total daily dose ranging from 2 to 100 IU, however patient.

Transition from Other Insulins to Insulin Glargine

When changing from a treatment regimen with an intermediate or long-a of the basal insulin may be required and the concomitant antidiabetic tr regular insulins or fast-acting insulin analogues or the dose of oral antidiat nsulin glargine should reduce their daily dose of basal insulin by 20% to reduction should, at least partially, be compensated by an increase in m individually. As with other insulin analogues, patients with high insulin

glargine because of antibodies to human insulin. Close metabolic moni hereafter. With improved metabolic control and resulting in increase of in necessary. Dose adjustment may also be required, for example, if the patie

or other circumstances arise that increase susceptibility to hypo- or hyp section) Method of Administration

Insulin glargine is administered subcutaneously and should not be given i s dependent on injection into subcutaneous tissue. Intravenous admin ypoglycaemia.

There are no clinically relevant differences in serum insulin or glucose le glargine. The prolonged duration of action of insulin glargine is depen njection sites within an injection area (abdomen, thigh, or deltoid) must be

In published clinical studies, there was no relevant difference in insulin gla administration. As for all insulins, the rate of absorption, and consequen and other variables.

Insulin glargine must not be mixed with any other insulin or diluted. Mixir cause precipitation.

Handling of the prefilled pen

For detailed instructions, refer to the Instruction for Use (IFU), PI provided v Preparation and handling

Insulin glargine should be inspected visually prior to administration. Insuli with no visible particles.

Mixing and diluting

recommended in such cases

Insulin glargine must not be diluted or mixed with any other insulin or solut Contraindications

Hypersensitivity to the active substance or to any of the excipients.

Special Warnings and Precautions for Use All insulin products, including insulin glargine (reference product), cause possibly leading to hypokalemia. Untreated hypokalemia may cause re potassium levels in patients at risk for hypokalemia if indicated (e.g., medications sensitive to serum potassium concentrations) Insulin glargine is not the insulin of choice for the treatment of diabetic l

In case of insufficient glucose control or a tendency to hyper- or hyp treatment regimen, injection sites and proper injection technique and all c considered.

Transferring a patient to another type or brand of insulin should be do (manufacturer), type (regular, NPH, lente, long-acting, etc.), origin manufacture may result in the need for a change in dose.

FRONT

nued treatment with insulin glargine in an uncontrolled extension rere seen during this extended treatment with insulin glargine. ducted by Biocon Limited to establish safety and non-inferiority (in d haemoglobin (HbA1c) in patients with type 1 diabetes mellitus. red to the reference product, with respect to change in HbA1c. The d 7-point glucose were comparable between the two study arms. barable between groups. Mean insulin dose was also comparable rage compliance >98% for both basal and pre-meal soluble insulin y. 1 diabetes mellitus aged 1 to 6 years (61 children from 2 to 5 in the up), comparing insulin glargine given once daily in the morning to wed bolus insulin before meals. Comparison of the two treatment 7. The composite primary outcome consisted of continuous glucose k blood glucose (FSBG) measurements, other FSBG measurements to f demostrating non-inferiority of insulin glargine to NPH in this terate of symptomatic hypoglycemia events is the most commonly tes of symptomatic hypoglycemia events is the most commonly tes of symptomatic hypoglycemia events is the two study arms are similar in nature, frequency, and severity as compared to the e events in both the treatment groups. Apart from hypoglycaemia, each study arm. Retinal adverse events reported in this study arms against Biocon's insulin glargine were observed with the same entional studies of safety pharmacology, repeated-dose toxicity, al studies do not indicate direct harmful effects with respect to with diabetes mellitus, where treatment with insulin is required. a prolonged duration of action. ame time each day. Iy adjusted In patients with type 2 diabetes mellitus, it can also be ady decrease in insulin requirements. d due to requced insulin metabolism. inished due to capacity for gluconeogenesis and reduced insulin lie for patients > 18 years. No clinical study safety data are available whildren below the age of 2 years, insulin glargine should only be	Insuln administration may cause insuln antibodies to form. In rare cases, the presence of such insuln antibodies may necessitate adjustment of the insuln does in order to correct a tendency to hyper-or hypoglycamia. (see Understable Effects section). Protocol and the adjustment of the insuln is used and, may therefore change when the treatment treatment is changed. Due to more sustaine does all insuln supply with insuln glagning, its exploration and by hypoglycamic episodes may be particularly increased with photocoaguation risk of transient at ansures to the patients in whom hypoglycaemic episodes may be changed, be iso protocol in antekely may there warning symptons of hypoglycaemic and increased with photocoaguation risk of transient annurasis to lowing hypoglycaemic and increased in the patients with profilerative relineading symptoms of hypoglycaemic and increased with photocoaguation risk of transient annurasis to lowing hypoglycaemic and minished. The warning symptoms of hypoglycaemic and minished and may therefore change who hypoglycaemic and minished. The warning symptoms of hypoglycaemic and minished and interview within symptoms of hypoglycaemic and minished and the effect of the advected symptoms of hypoglycaemic and minished and the effect of the advected symptoms and hypoglycaemic and the maximum and the patient is the transition of the advected symptoms and hypoglycaemic and the maximum and the patient of the advected symptoms and hypoglycaemic and the medical products (see Drug Interactions section). Such straadors may result in severe hypoglycaemic and possibly los of corrobusiness prior to the patient's awareness of hypoglycaemic and there advected show hypoglycaemic and hypoglycaemic and possibly of sectors provide symptoms and hypoglycaemic and there advected show and pageode of hypoglycaemic and there advected show and pageode and hypoglycaemic and hypoglycaemic and there advected show and pageode and hypoglycaemic and hypoglycaemic and there advected show and pageode and hypoglycaemic	Metabolism and Nutrition Disor Severe hypoglycaemic attacks, be life-threatening. In many part Generally, the greater and more symptoms. Immue System Disorders Immediate-type allergic reaction be associated with generalised at Insulin administration may cau glargine were observed with the such insulin antibodies may need Eye Disorders A marked change in glycaemic index of the lens. Long-term in insulin therapy with abrupt im patients with proliferative retir transient amaurosis. Skin and Subcutaneous Tissue If As with any insulin therapy, lip injection site within the given in General Disorders and Administ Injection site reactions include a usually resolve in a few days to a Rarely, insulin may cause sodiu therapy. Paediatric Population In general, the safety profile for reports received from post mari reaction) and skin reactions (rass Clinical study safety data are no Medication errors have been re of insulin glargine. Overdose Symptoms Insulin overdose may lead to sev Management Mild episodes of hypoglycaem patterns, or physical activity ma More severe episodes with co concentrated intravenous gluc after apparent clinical recovery. PHARMACEUTICAL PARTICU List of Excipients Glycerol, metacresol, zinc chlor Incompatibilities Insulin glargine must not be mi material. Shelf Life Please refer to carton/label. Dosage: As directed by Physicia
n children below the age of 2 years, insulin glargine should only be e 1 diabetes should be approximately one-third of the total daily	Drug Interactions A number of substances affect glucose metabolism and may require dose adjustment of insulin glargine. Substances that may enhance the blood-glucose-lowering effect and increase susceptibility to hypoglycaemia include oral antidiabetic medicinal products, angiotensin converting enzyme (ACE) inhibitors, disopyramide, fibrates, fluoxetine, monoamine oxidase (MAO) inhibitors, pentoxifylline, propoxyphene, salicylates and sulphonamide antibiotics.	Always store the pen with the constraints and the second state of
verage is 10 IU once daily and subsequently adjusted according to r doses needs to be individualized by the prescriber for a particular acting insulin to a regimen with insulin glargine, a change of dose eatment may need to be adjusted (dose and timing of additional betic medicinal products). To reduce the risk of nocturnal and early egimen from twice daily NPH insulin to a once daily regimen with 30% during the first week of treatment. During the first weeks the ealtime insulin, after this period the regimen should be adjusted doses may experience an improved insulin response with insulin toring is recommended during transition and in the initial weeks isulin sensitivity a further adjustment in dose regimen may become ent's weight or life-style changes, change of timing of insulin dose berglycaemia (see Special Warnings and Precautions for Use intravenously. The prolonged duration of action of insulin glargine nistration of the usual subcutaneous dose could result in severe levels after abdominal, deltoid or thigh administration of insulin dent on injection into subcutaneous space. As with all insulins, we rotated from one injection to the next. argine absorption after abdominal, deltoid or thigh subcutaneous thy the onset and duration of action profile and mixing can with the prefilled pen. in glargine must only be used if the solution is clear and colourless intion.	estragens and progestogens, phenothiazene derivatives, somatropin, sympathomimetic medicinal products (eg. clozapine and olanzapine) and protease inhibitors. Beta-blockers, clonidine, lithium salts or alcohol may either potentiate or weaken the blood-glucose-lowering effect of insulin. Pentamidine may cause hypoglycaemia, which may sometimes be followed by hyperglycaemia. In addition, under the influence of sympatholytic medicinal products such as beta-blockers, clonidine, guanethidine and reserptine, the signs of admenesi counter-regulation may be reduced or absent. Pregnancy and Latation Pregnancy On closed during pregnancies from controlled clinical triats are available. A moderate amount of data on pregnant-women /detwere=300-000, pregnancy-oncess)-exposed-to-marketed-insulin-glargine-indicate-no-adverse-effects-on-pregnancy. no malformations, nor foeto- or neonatal toxicity. Animal data do not indicate reproductive toxicity. Patients with dabetes should be advised to inform their health care professional if they are pregnant or are contemplating pregnancy. The use of insulin glargine may be considered during pregnancy, if necessary. It is essential for patients with pre-existing or gestational diabetes to maintain good metabolic control throughout pregnancy. Insulin requirements may decrease during the first timester in ad generally increase during the second and third timesters. Immediately after delivery, insulin requirements decline rapidly (increased risk of hypoglycaemia). Careful monitoring of glucose control is essential. Lactation It is unknown whether insulin glargine is excreted in human milk. No metabolic effects of ingested insulin glargine on the breastfed newdorn or infant are anticipated since insulin flagsine as a peptide is digested into amino acids in the human gastrointestinal tract. Breastfeeding women mayrequire adjustments in insult modes and dist. Effects nability of Drive and Use Machines The patient's ability to concentrate and react may be impaired as a result of h	After first use, store the pen a refrigerate) Protect from excessive heat and Keep out of reach of children Special Precautions for Dispot Insulin glargine must not be m cause precipitation. Inspect the BASALOG One ® b glargine is a solution; it does not Nature and Contents of Cont Insulin glargine injection (rDNA Presentation: 1 Prefilled pen of Pack Sizes: 1×3 mL Currently available in 3 mL pack Marketed by: Biocon Biologic Biocon House, Semicon Park, I @ - Registered trademark Leaflet revised June 2019 In case of any product related co 1800-102-9465 OR visit our w Effects and Product Complaint and its management, Call Toll Fi References 1. http://www.ema.europa.eu/ 2. https://www.medicines.org.i Note: Unless otherwise stated available information.
other relevant factors must be reviewed before dose adjustment is one under strict medical supervision. Changes in strength, brand (animal, human, human insulin analogue) and/or method of	General disorders and administration site conditions: Oedema. <u>Side effects reported very rare (<1/10.000)</u> Nervous system disorders: Dysgeusia. Musculoskeletal and connective tissue disorders: myalgia.	
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ition Disorders

c attacks, especially if recurrent, may lead to neurological damage. Prolonged or severe hypoglycaemic episodes may many patients, the signs and symptoms of neuroglycopaenia are preceded by signs of adrenergic counter-regulation. r and more rapid the decline in blood glucose, the more marked is the phenomenon of counter-regulation and its gic reactions to insulin are rare. Such reactions to insulin (including insulin glargine) or the excipients may, for example, neralised skin reactions, angio oedema, bronchospasm, hypotension and shock, and may be life threatening. may cause insulin antibodies to form. In clinical studies, antibodies that cross-react with human insulin and insulin ed with the same frequency in both NPH-insulin and insulin glargine treatment groups. In rare cases, the presence of es may necessitate adjustment of the insulin dose in order to correct a tendency to hyper- or hypoglycaemia. glycaemic control may cause temporary visual impairment, due to temporary alteration in the turgidity and refractive ig-term improved glycaemic control decreases the risk of progression of diabetic retinopathy. However, intensive of brupt improvement in glycaemic control may be associated with temporary worsening of diabetic retinopathy. In ative retinopathy, particularly if not treated with photocoagulation, severe hypoglycaemic episodes may result in <u>us Tissue Disorders</u> herapy, lipodystrophy may occur at the injection site and delay local insulin absorption. Continuous rotation of the ne given injection area may help to reduce or prevent these reactions. d Administration Site Conditions is indude redness, pain, itching, hives, swelling, or inflammation. Most minor reactions to insulins at the injection site

w days to a few weeks. ause sodium retention and oedema particularly if previously poor metabolic control is improved by intensified insulin

profile for children and adolescents (\leq 18 years of age) is similar to the safetyprofile for adults. The adverse reaction post marketing surveillance included relatively more frequent injection site reactions (injection site pain, injection site ctions (rash, urticaria) in children and adolescents (\leq 18 years of age) than in adults. lata are not available for children under 2 years.

ve been reported in which other insulins, particulary short acting insulins have been accidentally administered instead

lead to severe and sometimes long-term and life-threatening hypoglycaemia.

poplycaemia can usually be treated with oral carbohydrates. Adjustments in dose of the medicinal product, meal ctivity may be needed.

es with coma, seizure, or neurologic impairment may be treated with intramuscular/subcutaneous glucagon or nous glucose. Sustained carbohydrate intake and observation may be necessary because hypoglycaemia may recur

PARTICULARS

zinc chloride, hydrochloric acid, sodium hydroxide, and water for injection.

not be mixed with other medicinal products. It is important to ensure that syringes do not contain traces of any other

by Physician

with the cap on, to avoid any contamination.

prefilled pen in the refrigerator at 2°C to 8°C (36°F - 46°F). Do not freeze.

J take the pen out of the refrigerator, allow it to reach room temperature (to around 30°C) naturally. Cold insulin is



the pen at room temperature up to 30°C (86°F). Use the pen within 28 days from the date of first use. (Do not e heat and sunlight.

for Disposal and Other Handling

not be mixed with any other insulin or diluted. Mixing or diluting can change its time/action profile and mixing can **OG One**[®] before use. It must only be used if the solution is clear, colourless, with no visible solid particles. Since insulin

it does not require re-suspension before use.

ts of Container ion (rDNA origin) 100 IU/mL is packed in 3 mL prefilled pen. lled pen of 3mL Cartridge

3 mL pack only.

Biologics India Limited con Park, Electronics City, Phase - II, Bengaluru - 560 100, India.

rela<mark>ted complaints or adverse events related to Biocon products, Call Toll Free No.</mark> visit bur website **www.biocon.com** and fill voluntary reporting form available under 'Report Adverse Events/Side omblaints' and send the duly filled form to us at **drugsafety@biocon.com**. For general queries regarding diabetes Call Toll Free No.: **1800-425-7667**.

uropa.eu/docs/en_GB/document_library/EPAR_Product_Information/human/000284/WC500036082.pdf sdata.fda.gov/drugsatfda_docs/label/2015/021081s063lbl.pdf cines.org.uk/emc/PIL.18417.latest.pdf

ise stated, material contained herein related to studies, tests, treatment and applications are taken from publicly



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