

BETAGAN® 0.5% w/v Unit Dose Eye Drops, Solution

(levobunolol hydrochloride)

Read all of this leaflet carefully before you start using this medicine.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you. Do not pass it on to others. It may harm them, even if their symptoms are the same as yours.
- If any of the side effects gets serious, or if you notice any side effects not listed in this leaflet, please tell your doctor or pharmacist.
- The name of this medicine is BETAGAN 0.5% w/v Unit Dose Eye Drops, Solution, but will be referred to as Betagan throughout the remainder of this leaflet.

In this leaflet:

1. What Betagan is and what it is used for
2. What you need to know before you use Betagan
3. How to use Betagan
4. Possible side effects
5. How to store Betagan
6. Further information

1. What Betagan is and what it is used for

Betagan is an eye drop. It is used to treat **glaucoma** by lowering the pressure that builds up in the eye.

Your eyeball contains a watery liquid, which is constantly being drained out of the eye, and new liquid is made to replace this. Glaucoma can occur when the liquid does not drain out quickly enough. This leads to raised pressure within the eyeball which can eventually damage your sight. Betagan works by reducing the production of liquid. This reduces the pressure inside the eye.

Betagan belongs to a group of medicines called beta blockers.

2. What you need to know before you use Betagan

Do not use Betagan if

- you are allergic to:
 - levobunolol**
 - any other ingredients (see section 6 "Further information")
- you have or have had **asthma** or other lung diseases (for example severe chronic obstructive pulmonary disease (COPD)) where you have difficulty breathing, wheezing or a chronic cough
- you have or have had **heart problems** such as slow heart beat, heart failure or heart beat disorders (irregular heart beat).

Betagan is not recommended for use in children

Take special care with Betagan

Talk to your doctor before using Betagan if you suffer from, or have in the past suffered from:

- coronary heart disease (symptoms can include chest pain or tightness, breathlessness or choking), heart failure, low blood pressure
- disturbances of heart rate such as slow heart beat
- asthma, breathing problems or chronic obstructive pulmonary disease
- poor blood circulation disease (such as Raynaud's disease or Raynaud's syndrome)
- diabetes as levobunolol may mask the signs and symptoms of low blood sugar
- overactivity of the thyroid gland as levobunolol may mask the signs and symptoms of this condition
- any allergies (especially if any of the allergies are severe)
- problems with the surface of your eyes
- eye surgery to lower the pressure in your eye(s)

If you have a history of breathing problems or heart disease your doctor may monitor you more closely as in rare cases death has been reported following taking levobunolol.

If you suffer from allergies, or have a severe allergic reaction be aware that the usual dose of adrenaline may need to be increased.

Tell your doctor before you have an operation that you are using Betagan as levobunolol may change effects of some medicines used during anaesthesia.

Other medicines and Betagan

Tell your doctor or pharmacist if you are using or have recently used any other medicines.

Tell your doctor before using Betagan if you are taking **oral beta blockers** to lower blood pressure.

Betagan is also a beta blocker. Therefore your doctor needs to know whether there is likely to be a risk of having too much beta blocker in your system. The following symptoms could result from such a risk:

- low blood pressure (for example, upon standing)
- slow heart beat
- dizziness/temporary loss of consciousness
- low pressure in the eye ball

It is important to tell your doctor before using Betagan, if you are taking:

- medicines to treat high blood pressure (hypertension)
- medicines for heart conditions (for example irregular heartbeat) such as beta blockers, amiodarone or digoxin
- another eyedrop to lower pressure in the eye (glaucoma)
- medicines to dilate your pupil, for example adrenaline
- other beta blockers by mouth or as an eye drop
- medicines to treat diabetes

If the dose of any of your current medicines is changed you should tell your doctor.

Pregnancy and breast-feeding

Tell your doctor **before** you start using Betagan if you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby.

Betagan **should not** be used during pregnancy or breast-feeding unless your doctor, having considered all the risks, still recommends it for you.

Ask your doctor or pharmacist for advice before using any medicine.

Driving and using machines

Betagan may cause tiredness, dizziness or blurred/abnormal vision. **Do not** drive or use machinery until these symptoms have cleared.

3. How to use Betagan

Always use Betagan exactly as your doctor has told you. You should check with your doctor or pharmacist if you are not sure. The usual dose is **1 drop** into the affected eye(s), **1 to 2 times a day**.

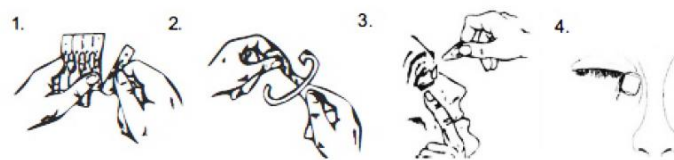
Remove contact lenses prior to application and wait at least 15 minutes after using the eye drops before putting your lenses back in your eyes.

Your doctor will usually check your eye pressure 4 weeks after starting treatment. It may be necessary to use another drug with Betagan to control your condition.

Instructions for use

- Wash your hands. Open one of the foil covered pouches containing two strips of five single-dose ('Unit Dose') containers. Make sure that the single-dose container you intend to use is intact. The solution should be used immediately after opening.

Apply your eye drops in the following way:



1. Tear one single-dose container from the strip.
2. Hold the single-dose container upright (with the top uppermost) and twist off the top.
3. Tilt your head back and look at the ceiling. Gently pull the lower lid down until there is a small pocket. Turn the single-dose container upside down and squeeze it to release a drop into each eye that needs treatment.
4. Whilst keeping the treated eye closed, press your finger against its corner (where the eye meets the nose) and hold for two minutes.
5. Repeat steps 3 and 4 for the other eye, if it also needs treatment.

If a drop misses your eye, try again.

To avoid contamination, do not let the open-end of the single-dose container touch your eye or anything else.

Each container **should only be used once**, so do not re-use even if there is solution remaining. Wipe off any excess liquid from your cheek with a clean tissue.

The proper application of your eye drops is very important. If you have any questions ask your doctor or pharmacist.

If you use more Betagan than you should

Putting too many drops in your eye(s) is unlikely to lead to unwanted side-effects. If you have placed too many drops in your eye(s), wash your eyes with clean water. Put your next dose in at the usual time.

If, by accident, anyone drinks this medicine, contact your doctor straight away.

If you forget to use Betagan

If you forget a dose apply it as soon as you remember, unless it is almost time for your next dose, in which case you should miss out the forgotten dose. Then apply your next dose as usual and continue with your normal routine.

Do not use a double dose to make up for a forgotten dose.

If you stop using Betagan

Do not stop using Betagan or reduce the amount you are using until your doctor tells you to, since your symptoms may get worse.

Betagan should be used as advised by your doctor. If you have any further questions on the use of this product, ask your doctor or pharmacist.

4. Possible side effects

Like all medicines, Betagan can cause side effects, although not everyone gets them. The chance of having a side effect is described by the following categories:

Very common	Occurs in more than 1 out of 10 patients
Common	Occurs in fewer than 1 out of 10 patients
Uncommon	Occurs in fewer than 1 out of 100 patients
Rare	Occurs in fewer than 1 out of 1,000 patients
Very rare	Occurs in fewer than 1 out of 10,000 patients
Unknown	The chance of having a side effect is unknown

You should contact your doctor or go to a hospital immediately if you experience:

- rash, swallowing or breathing difficulties, swelling of your lips, face, throat or tongue (these could be signs of a serious allergic reaction)
- breathing difficulties (including asthma)
- loss of consciousness (or feeling like this)
- unusual or slow heart beat
- low blood pressure

The above **side effects are serious** and in rare cases can be life-threatening.

The following side effects may be seen with Betagan:

Very common side effects:

- eye irritation, eye pain

Common side effects:

- inflammation of the eyelids and outermost layer of the eye

Side effects with unknown frequency:

- eye redness, allergic reaction in the eye, decreased blinking, inflammation of the iris and inner eye or surface of the eye (cornea), blurring of vision, small breaks in the surface of the eye with inflammation, itching of the eye/eyelids, eye and/or eyelid swelling/puffiness, eye discharge or tearing, dry eye, redness and eczema of eyelids, sensation of a foreign body in the eye
- unusual, irregular, slow or fast heart beat, fainting
- asthma, breathing difficulties, throat irritation, nasal discomfort
- low blood pressure, cold, numbness or discoloration of the hands or feet
- confusion, dizziness, sleepiness, decreased energy, headache, sleeping problems
- depression
- swelling of the face, tiredness
- nausea
- skin rashes, hives, flaking and itching, rough patches of skin
- hair loss
- symptoms of allergic reaction (such as swelling, redness of the eye and rash of the skin)

Like other medicines applied into the eyes, levobunolol is absorbed into the blood. This may cause similar side effects as seen with beta-blocking agents taken by mouth or injected. Incidence of side effects after topical ophthalmic administration is lower than when medicines are taken by mouth or injected. The side effects listed below include additional reactions seen within the class of betablockers when used for treating eye conditions:

- Generalized allergic reactions including swelling beneath the skin that can occur in areas such as the face and limbs, and can obstruct the airway which may cause difficulty swallowing or breathing, severe sudden life-threatening allergic reaction
- Stroke, reduced blood supply to the brain, increases in signs and symptoms of myasthenia gravis (muscle disorder) and unusual sensations like pins and needles.
- Low blood glucose levels.
- Nightmares and memory loss.
- Detachment of the layer below the retina that contains blood vessels following filtration surgery which may cause visual disturbances, corneal erosion (damage to the front layer of the eyeball), dropping of the upper eyelid (making the eye stay half closed), double vision.
- Heart attack, heart failure, chest pain, congestive heart failure (heart disease with shortness of breath and swelling of the feet and legs due to fluid build up), fluid build up in your limbs.
- Cold hands and feet.
- Constriction of the airways in the lungs (predominantly in patients with pre-existing diseases like asthma), cough.
- Taste disturbances, indigestions, diarrhoea, dry mouth, abdominal pain, vomiting.
- Skin rash with white silvery coloured appearance (psoriasiform rash) or worsening of psoriasis.
- Muscle pain not caused by exercise.
- Sexual dysfunction, decreased libido.

Other side effects reported with eye drops containing phosphates:

In very rare cases, some patients with severe damage to the clear layer at the front of the eye (the cornea) have developed cloudy patches on the cornea due to calcium build-up during treatment.

Reporting of side effects

If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the Yellow Card Scheme at:

www.mhra.gov.uk/yellowcard or search for MHRA Yellow Card in the **Google Play** or **Apple App Store**.

By reporting side effects, you can help provide more information on the safety of this medicine.

5. How to store Betagan

- Keep out of the sight and reach of children.
- Do not use Betagan after the expiry date which is stated on the pouch label and carton after EXP. The expiry date refers to the last day of that month.
- Do not store above 25°C.
- Keep single-dose containers in the pouch and outer carton in order to protect from light.
- Make sure that the single-dose container is intact before use. Each container **should only be used once**. Do not re-use even if there is solution remaining.
- The carton can be reclosed after opening.
- If your medicine shows any sign of deterioration, return it to your pharmacist.
- Medicines should not be disposed of via wastewater or household waste. Ask your pharmacist how to dispose of medicines no longer required. These measures will help protect the environment.

6. Further information

What Betagan contains

- Each vial contains 0.5% w/v levobunolol hydrochloride.
- The other ingredients are poly(vinyl alcohol), sodium chloride, disodium edetate, sodium phosphate dibasic heptahydrate, potassium phosphate monobasic, sodium hydroxide (to adjust pH) or hydrochloric acid (to adjust pH) and purified water.

What Betagan looks like and contents of the pack

Betagan is a colourless to brown solution in a plastic single-dose ('Unit Dose') container.

Each pack contains 30 or 60 of these single-dose containers. Two strips of 5 single-dose containers are presented in foil covered pouches. Each container has 0.4 millilitres of eye drops inside.

Further information about glaucoma is available from:

International Glaucoma Association (IGA)

Tel: 01233 64 81 70

Fax: 01233 64 81 79

Email: info@iga.org.uk

(The IGA is an organisation which helps glaucoma patients and their relatives, and is not associated with MPT Pharma Ltd.)

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