

(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

### **SUMMARY OF PRODUCT CHARACTERISTICS**

#### 1. Name of the medicinal product

Tacoma 0.5% w/v Eye Drops, Solution

#### 2. Qualitative and quantitative composition

Each ml Contains:

Timolol Maleate Ph.Eur 6.8 mg equivalent to Timolol. ...... 5.0 mg

Benzalkonium Chloride Solution Ph. Eur ...... 0.01 % w/v

(As preservative)

Water for Injections Ph.Eur ...... q.s to 1 ml

For the full list of excipients, see section 6.1.

#### 3. Pharmaceutical form

Eye drops, solution

Clear colorless to pale yellow liquid, practically free from particles.

#### 4. Clinical particulars

#### 4.1 Therapeutic indications

Timolol Eye Drops is a beta-adrenoreceptor blocking agent used topically in the reduction of elevated intra-ocular pressure in various conditions including following: patients with ocular hypertension; patients with chronic open-angle glaucoma including aphakic patients; some patients with secondary glaucoma.

#### 4.2 Posology and method of administration

#### Posology



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

Recommended therapy is one drop 0.25% solution in the affected eye twice a day.

If clinical response is not adequate, dosage may be changed to one drop 0.5% solution in each affected eye twice a day. If needed, Timolol Eye Drops may be used with other agent(s) for lowering intra-ocular pressure. The use of two topical beta-adrenergic blocking agents is not recommended (see also section 4.4).

Intra-ocular pressure should be reassessed approximately four weeks after starting treatment because response to Timolol may take a few weeks to stabilise.

Provided that the intra-ocular pressure is maintained at satisfactory levels, many patients can then be placed on once-a-day therapy.

#### Transfer from other agents

When another topical beta-blocking agent is being used, discontinue its use after a full day of therapy and start treatment with Timolol Eye Drops the next day with one drop of 0.25% Timolol Eye Drops in each affected eye twice a day. The dosage may be increased to one drop of 0.5% solution in each affected eye twice a day, if the response is not adequate.

When transferring a patient from a single anti-glaucoma agent other than a topical beta-blocking agent, continue the agent and add one drop of 0.25% Timolol Eye Drops in each affected eye twice a day. On the following day, discontinue the previous agent completely, and continue with Timolol Eye Drops. If a higher dosage of Timolol Eye Drops is required, substitute one drop of 0.5% solution in each affected eye twice a day.

#### Elderly

There has been wide experience with the use of timolol maleate in elderly patients. The dosage recommendations given above reflect the clinical data derived from this experience.



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

#### **Pediatric Population**

Due to limited data, Timolol could only be recommended for use in primary congenital and primary juvenile glaucoma for a transitional period while a decision is made on a surgical approach and in case of failed surgery while awaiting further options.

#### Posology

Clinicians should strongly evaluate the risks and benefits when considering medical therapy with Timolol in pediatric patients. A detailed pediatric history and examination to determine the presence of systemic abnormalities should precede the use of Timolol.

No specific dosage recommendation can be given as there is only limited clinical data (see also section 5.1).

However, if benefit outweighs the risk, it is recommended to use the lowest active agent concentration available once daily. If IOP could not be sufficiently controlled, a careful up titration to a maximum of two drops daily per affected eye has to be considered. If applied twice daily, an interval of 12 hours should be preferred.

Furthermore the patients, especially neonates, should be closely observed after the first dose for one to two hours in the office and closely monitored for ocular and systemic side effects.

With regard to pediatric use, the 0.1% active agent concentration might already be sufficient.

#### Duration of treatment

For a transient treatment in the pediatric population (see also section 4.2).

#### Method of administration

When using nasolacrimal occlusion or closing the eyelids for 2 minutes, the systemic absorption is reduced. This may result in a decrease in systemic side effects and an increase in local activity.

Patients should be instructed to avoid allowing the tip of the dispensing container to contact the eye or surrounding structures.



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

Patients should also be instructed that ocular solutions, if handled improperly, can become contaminated by common bacteria known to cause ocular infections. Serious damage to the eye and subsequent loss of vision may result from using contaminated solutions.

#### 4.3 Contraindications

Reactive airway disease including bronchial asthma or a history of bronchial asthma, severe chronic obstructive pulmonary disease; sinus bradycardia, sick sinus syndrome sino-atrial block, second- and third-degree atrioventricular block not controlled with pace-maker, overt cardiac failure, cardiogenic shock.

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

#### 4.4 Special warnings and precautions for use

Like other topically applied ophthalmic agents, timolol is absorbed systemically. Due to beta-adrenergic component, timolol, the same types of cardiovascular, pulmonary and other adverse reactions seen with systemic beta-adrenergic blocking agents may occur. Incidence of systemic ADRs after topical ophthalmic administration is lower than for systemic administration. To reduce the systemic absorption, see section 4.2.

#### Cardiac disorders:

In patients with cardiovascular diseases (e.g. coronary heart disease, Prinzmetal's angina and cardiac failure) and hypotension therapy with beta-blockers should be critically assessed and the therapy with other active substances should be considered. Patients with cardiovascular diseases should be watched for signs of deterioration of these diseases and of adverse reactions.

Due to its negative effect on conduction time, beta-blockers should only be given with caution to patients with first degree heart block.



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

Cardiac failure should be adequately controlled before beginning therapy with Timolol. Patients with a history of severe cardiac disease should be watched for signs of cardiac failure and have their pulse rates monitored.

#### Vascular disorders

Patients with severe peripheral circulatory disturbance/disorders (i.e. severe forms of Raynaud's disease or Raynaud's syndrome) should be treated with caution.

#### Respiratory disorders:

Respiratory reactions, including death due to bronchospasm in patients with asthma have been reported following administration of some ophthalmic beta-blockers.

Timolol Eye Drops should be used with caution, in patients with mild/moderate chronic obstructive pulmonary disease (COPD) and only if the potential benefit outweighs the potential risk.

#### Hypoglycemia/diabetes

Beta-blockers should be administered with caution in patients subject to spontaneous hypoglycaemia or to patients with labile diabetes, as beta-blockers may mask the signs and symptoms of acute hypoglycaemia.

Beta-blockers may also mask the signs of hyperthyroidism.

#### Corneal diseases

Ophthalmic beta-blockers may induce dryness of eyes. Patients with corneal diseases should be treated with caution.

#### Other beta-blocking agents

The effect on intra-ocular pressure or the known effects of systemic beta-blockade may be potentiated when timolol is given to the patients already receiving a systemic beta-blocking agent. The response of these patients should be closely observed. The use of two topical beta-adrenergic blocking agents is not recommended (see section 4.5).



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

There have been reports of skin rashes and/or dry eyes associated with the use of beta-adrenoreceptor blocking drugs. The reported incidence is small and in most cases the symptoms have cleared when treatment was withdrawn. Discontinuation of the drug should be considered if any such reaction is not otherwise explicable. Cessation of therapy involving beta-blockade should be gradual.

#### Choroidal detachment

Choroidal detachment has been reported with administration of aqueous suppressant therapy (e.g. timolol, acetazolamide) after filtration procedures.

#### Surgical anaesthesia

Beta-blocking ophthalmological preparations may block systemic beta-agonist effects e.g. of epinephrine (adrenaline). The anaesthesiologist should be informed when the patient is receiving timolol.

Timolol Eye Drops has been generally well tolerated in glaucoma patients wearing conventional hard contact lenses. Timolol Eye Drops has not been studied in patients wearing lenses made with material other than polymethylmethacrylate (PMMA), which is used to make hard contact lenses.

Timolol Eye Drops Solution contains benzalkonium chloride as a preservative which may be deposited in soft contact lenses; therefore Timolol Eye Drops should not be used while wearing these lenses. The lenses should be removed before application of the drops and not reinserted earlier than 15 minutes after use.

Benzalkonium chloride has been reported to cause eye irritation, symptoms of dry eyes and may affect the tear film and corneal surface. Should be used with caution in dry eye patients and in patients where the cornea may be compromised. Patients should be monitored in case of prolonged use.

In patients with angle-closure glaucoma, the immediate objective of treatment is to reopen the angle. This requires constricting the pupil with a miotic. Timolol Eye Drops has little or no effect



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

on the pupil. When Timolol Eye Drops is used to reduce elevated intra-ocular pressure in angleclosure glaucoma it should be used with a miotic and not alone.

Patients should be advised that if they develop an intercurrent ocular condition (e.g. trauma, ocular surgery or infection), they should immediately seek their physician's advice concerning the continued use of the present multidose container (see section 4.2).

There have been reports of bacterial keratitis associated with the use of multiple dose containers of topical ophthalmic products. These containers had been inadvertently contaminated by patients who, in most cases, had a concurrent corneal disease or a disruption of the ocular epithelial surface.

#### Anaphylactic reactions

While taking beta-blockers, patients with a history of atopy or a history of severe anaphylactic reaction to a variety of allergens may be more reactive to repeated challenge with such allergens and, may be unresponsive to the usual dose of epinephrine (adrenaline) used to treat anaphylactic reactions.

#### Paediatric Population

Timolol solutions should generally be used cautiously in young glaucoma patients (see also section 5.2).

It is important to notify the parents of potential side effects so they can immediately discontinue the drug therapy (see section 4.8). Signs to look for are, for example, coughing and wheezing.

Because of the possibility of apnea and Cheyne-Stokes breathing, the drug should be used with extreme caution in neonates, infants and younger children. A portable apnoea monitor may also be helpful for neonates on Timolol.

#### 4.5 Interaction with other medicinal products and other forms of interaction

No specific drug interaction studies have been performed with timolol maleate.



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

There is a potential for additive effects resulting in hypotension and/or marked bradycardia when ophthalmic beta-blockers solution is administered concomitantly with oral calcium-channel blockers, beta-adrenergic blocking agents, antiarrhythmics (including amiodarone), digitalis glycosides, rauwolfia alkaloids, parasympathomimetics, guanethidine.

Although Timolol alone has little or no effect on pupil size, mydriasis resulting from concomitant use of ophthalmic beta-blockers and epinephrine (adrenaline) has been reported occasionally.

Potentiated systemic beta-blockade (e.g. decreased heart rate, depression) has been reported during combined treatment with CYP2D6 inhibitors (e.g. quinidine, fluoxetine, paroxetine) and Timolol.

Oral beta-adrenergic blocking agents may exacerbate the rebound hypertension which can follow the withdrawal of clonidine.

Close observation of the patient is recommended when a beta-blocker is administered to patients receiving catecholamine-depleting drugs such as reserpine, because of possible additive effects and the production of hypotension and/or marked bradycardia, which may produce vertigo, syncope, or postural hypotension.

Oral calcium-channel antagonists may be used in combination with beta-adrenergic blocking agents when heart function is normal, but should be avoided in patients with impaired cardiac function.

The potential exists for hypotension, AV conduction disturbances and left ventricular failure to occur in patients receiving a beta-blocking agent when an oral calcium-channel blocker is added to the treatment regimen. The nature of any cardiovascular adverse effects tends to depend on the type of calcium-channel blocker used. Dihydropyridine derivatives, such as nifedipine, may lead to hypotension, whereas verapamil or diltiazem have a greater propensity to lead to AV conduction disturbances or left ventricular failure when used with a beta-blocker.



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

Intravenous calcium channel blockers should be used with caution in patients receiving betaadrenergic blocking agents.

The concomitant use of beta-adrenergic blocking agents and digitalis with either diltiazem or verapamil may have additive effects in prolonging AV conduction time.

#### 4.6 Fertility, pregnancy and lactation

#### Pregnancy

There are no adequate data for the use of timolol maleate in pregnant women. Timolol Eye Drops should not be used during pregnancy unless clearly necessary. To reduce the systemic absorption, see section 4.2.

Epidemiological studies have not revealed malformative effects but show a risk for intra uterine growth retardation when beta-blockers are administered by the oral route. In addition, signs and symptoms of beta-blockade (e.g. bradycardia, hypotension, respiratory distress and hypoglycaemia) have been observed in the neonate when beta-blockers have been administered until delivery. If Timolol Eye Drops is administered until delivery, the neonate should be carefully monitored during the first days of life.

#### Breast-feeding

Timolol is detectable in human milk. A decision for breastfeeding mothers, either to stop taking Timolol Eye Drops or stop nursing, should be based on the importance of the drug to the mother.

#### 4.7 Effects on ability to drive and use machines

Possible side effects such as dizziness, visual disturbances, refractive changes, diplopia, ptosis, frequent episodes of mild and transient blurred vision and fatigue may affect some patients' ability to drive or operate machinery.

### MICRO LABS LIMITED, INDIA SUMMARY OF PRODUCT CHARACTERISTICS



TACOMA EYE DROPS

(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

#### 4.8 Undesirable effects

Like other topically applied ophthalmic drugs, Timolol is absorbed into the systemic circulation. This may cause similar undesirable effects as seen with systemic beta-blocking agents. Incidence of systemic ADRs after topical ophthalmic administration is lower than for systemic administration. The following adverse reactions have been reported with ocular administration of this or other Timolol maleate formulations, either in clinical trials or since the drug has been marketed. Additional side effects have been reported in clinical experiences with systemic timolol maleate, and may be considered potential effects of ophthalmic Timolol maleate. Also listed are adverse reactions seen within the class of ophthalmic beta-blockers and may potentially occur with Timolol Eye Drops.

#### Eye disorders

Ocular: signs and symptoms of ocular irritation, (e.g. burning, stinging, itching, tearing, redness), conjunctivitis, blepharitis, keratitis, dry eyes, decreased corneal sensitivity, blurred vision, corneal erosion. Visual disturbances, including refractive changes (due to withdrawal of miotic therapy in some cases), diplopia, ptosis and choroidal detachment following filtration surgery (see section 4.4). Cases of corneal calcification have been reported very rarely in association with the use of phosphate containing eye drops in some patients with significantly damaged corneas.

Ear and labyrinth disorders

Ocular: tinnitus

Cardiac disorders

ocular: bradycardia, chest pain, arrhythmia, heart block, congestive heart failure, palpitations, cardiac arrest, cardiac failure, oedema.

Systemic: atrioventricular block (second- or third-degree), sino-atrial block, pulmonary oedema, worsening of arterial insufficiency, worsening of angina pectoris, vasodilation.



#### (Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

Vascular disorders

Ocular: claudication, hypotension, Raynaud's phenomenon, cold hands and feet.

Respiratory, thoracic and mediastinal disorders

Ocular: bronchospasm (predominantly in patients with pre-existing bronchospastic disease),

respiratory failure, dyspnoea, cough.

Systemic: rales.

General disorders and administration site conditions

Ocular: asthenia, fatigue.

Systemic: extremity pain, decreased exercise tolerance.

Skin and subcutaneous tissue disorders

Ocular: alopecia, psoriasiform rash or exacerbation of psoriasis, skin rash.

Systemic: sweating, exfoliative dermatitis.

Immune system disorders

Ocular: systemic lupus erythematousus, pruritus.

Systemic: signs and symptoms of allergic reactions including anaphylaxis, angioedema, urticaria,

localised and generalized rash, anaphylactic reaction.

Psychiatric disorders

Ocular: depression, insomnia, nightmares, memory loss, hallucination.

Systemic: diminished concentration increased dreaming.

Nervous system disorders

Ocular: syncope, cerebrovascular accident, cerebral ischemia, headache, dizziness, increase in

signs and symptoms of myasthenia gravis, paraesthesia.

Systemic: vertigo, local weakness.

Gastrointestinal disorders

Ocular: nausea, Diarrhoea, dyspepsia, dry mouth, dysgeusia, abdominal pain, vomiting.

### MICRO LABS LIMITED, INDIA SUMMARY OF PRODUCT CHARACTERISTICS



#### TACOMA EYE DROPS

(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

Reproductive system and breast disorders

Ocular: decreased libido, Peyronie's disease, sexual dysfunction such as impotence;

Systemic: micturition difficulties.

Metabolism and nutrition disorders

Ocular: hypoglycemia.

Systemic: hyperglycaemia.

Musculoskeletal and connective tissue disorders

Ocular: myalgia.

Systemic: arthralgia.

Blood and lymphatic system disorders

Systemic: non-thrombocytopenic purpura.

#### 4.9 Overdose

There have been reports of inadvertent over dosage with Timolol Eye Drops resulting in systemic effects similar to those seen with systemic beta-adrenergic blocking agents such as dizziness, headache, shortness of breath, bradycardia, hypotension, bronchospasm, acute cardiac insufficiency and cardiac arrest (see section 4.8).

If overdosage occurs, the following measures should be considered:

1. Gastric lavage, if ingested. Studies have shown that timolol does not dialyse readily.

2. Symptomatic bradycardia: atropine sulphate, 0.25 to 2 mg intravenously, should be used to induce vagal blockade. If bradycardia persists, intravenous isoprenaline hydrochloride should be administered cautiously. In refractory cases, the use of a cardiac pacemaker may be considered.

3. Hypotension: a sympathomimetics pressor agent such as dopamine, dobutamine or noradrenaline should be used. In refractory cases, the use of glucagon has been reported to be useful.



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

- 4. Bronchospasm: isoprenaline hydrochloride should be used. Additional therapy with aminophylline may be considered.
- 5. Acute cardiac failure: conventional therapy with digitalis, diuretics and oxygen should be instituted immediately. In refractory cases, the use of intravenous aminophylline is suggested. This may be followed, if necessary, by glucagon which has been reported to be useful.
- 6. Heart block (second- or third-degree): isoprenaline hydrochloride or a pacemaker should be used.

#### 5. Pharmacological properties

#### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Ophthalmologicals, antiglaucoma preparations and miotics, beta blocking agents, ATC code: S01ED01.

#### Mechanism of action

Timolol maleate is a non-selective beta-adrenergic receptor blocking agent that does not have significant intrinsic sympathomimetic, direct myocardial depressant, or local anaesthetic activity. Timolol maleate combines reversibly with the beta-adrenergic receptor, and this inhibits the usual biologic response that would occur with stimulation of that receptor. This specific competitive antagonism blocks stimulation of the beta-adrenergic stimulating (agonist) activity, whether these originate from an endogenous or exogenous source. Reversal of this blockade can be accomplished by increasing the concentration of the agonist which will restore the usual biological response.

#### Clinical efficacy and safety

Unlike miotics, Timolol reduces IOP with little or no effect on accommodation or pupil size. In patients with cataracts, the inability to see around lenticular opacities when the pupil is



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

constricted is avoided. When changing patients from miotics to Timolol Eye Drops a refraction might be necessary when the effects of the miotic have passed.

Diminished response after prolonged therapy with Timolol Eye Drops has been reported in some patients.

#### Paediatric Population

There is only very limited data available on the use of timolol (0.25%, 0.5% twice daily one drop) in the paediatric population. In one small, double masked, randomized, published clinical study conducted for a treatment period up to 12 weeks on 105 children (n=71 on timolol) aged 12 days - 5 years the data have shown to some extent evidence, that Timolol in the indication primary congenital and primary juvenile glaucoma is effective in short term treatment.

#### 5.2 Pharmacokinetic properties

The onset of reduction in intra-ocular pressure can be detected within one-half hour after a single dose. The maximum effect occurs in one or two hours; significant lowering of IOP can be maintained for as long as 24 hours with a single dose.

#### Paediatric Population

As already confirmed by adult data, 80% of each eye drop passes through the nasolacrimal system where it may be rapidly absorbed into the systemic circulation via the nasal mucosa, conjunctiva, nasolacrimal duct, oropharynx and gut, or the skin from tear overflow.

Due to the fact that the blood volume in children is smaller than that in adults a higher circulation concentration has to be taken into account. In addition, neonates have immature metabolic enzyme pathways and it may result in an increase in elimination half-life and potentiating adverse events.



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

Limited data show that plasma timolol levels in children after 0.25% greatly exceed those in adults after 0.5%, especially in infants and are presumed to increase the risk of side effects such as bronchospasm and bradycardia.

#### 5.3 Preclinical safety data

No adverse ocular effects were observed in rabbits and dogs administered Timolol topically in studies lasting one and two years, respectively. The oral  $LD_{50}$  of the drug is 1,190 and 900 mg/kg in female mice and female rats, respectively.

Carcinogenesis, mutagenesis, impairment of fertility

In a two-year oral study of timolol maleate in rats there was a statistically significant ( $p \le 0.05$ ) increase in the incidence of adrenal phaeochromocytomas in male rats administered 300 mg/kg/day (300 times the maximum recommended human oral dose). Similar differences were not observed in rats administered oral doses equivalent to 25 or 100 times the maximum recommended human oral dose.

In a lifetime oral study in mice, there were statistically significant (p≤0.05) increases in the incidence of benign and malignant pulmonary tumours, benign uterine polyps and mammary adenocarcinoma in female mice at 500 mg/kg/day (500 times the maximum recommended human dose), but not at 5 or 50 mg/kg/day. In a subsequent study in female mice, in which postmortem examinations were limited to uterus and lungs, a statistically significant increase in the incidence of pulmonary tumours was again observed at 500 mg/kg/day.

The increased occurrence of mammary adenocarcinoma was associated with elevations in serum prolactin which occurred in female mice administered Timolol at 500 mg/kg/day, but not at doses of 5 or 50 mg/kg/day. An increased incidence of mammary adenocarcinomas in rodents has been associated with administration of several other therapeutic agents which elevate serum prolactin, but no correlation between serum prolactin levels and mammary tumours has been



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

established in man. Furthermore, in adult human female subjects who received oral dosages of up to 60 mg of Timolol maleate, the maximum recommended human oral dosage; there were no clinically meaningful changes in serum prolactin.

Timolol maleate was devoid of mutagenic potential when evaluated in vivo (mouse) in the micronucleus test and cytogenetic assay (doses up to 800 mg/kg) and in vitro in a neoplastic cell transformation assay (up to 100 mcg/ml). In Ames tests the highest concentrations of timolol employed, 5,000 or 10,000 mcg/plate, were associated with statistically significant ( $p \le 0.05$ ) elevations of revertants observed with tester strain TA100 (in seven replicate assays) but not in the remaining three strains. In the assays with tester strain TA100, no consistent dose-response relationship was observed, nor did the ratio of test to control revertants reach 2. A ratio of 2 is usually considered the criterion for a positive Ames test.

Reproduction and fertility studies in rats showed no adverse effect on male or female fertility at doses up to 150 times the maximum recommended human oral dose.

#### 6. Pharmaceutical particulars

#### 6.1 List of excipients

Benzalkonium chloride solution; Sodium Dihydrogen Phosphate Dihydrate; Disodium Phosphate Dodecahydrate; Sodium hydroxide, Water for injections.

#### **6.2** Incompatibilities

Not applicable

#### 6.3 Shelf life

36 months from the date of manufacturing.

Discard solution 28 days after opening the bottle.



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

#### **6.4 Special precautions for storage**

Do not store above 30°C.

#### 6.5 Nature and contents of container

5ml in 5 ml three piece Opaque container packed in a carton along with leaflet.

#### 6.6 Special precautions for disposal and other handling

No Special requirement.



(Timolol Eye Drops, Solution 0.5% w/v (As Timolol Maleate)

#### 7. Marketing authorization holder

#### MICRO LABS LIMITED

31, Race Course Road

Bangalore-560001

**INDIA** 

#### **Manufacturing Site:**

MICRO LABS LIMITED

Plot NO. 113-116, IV

Phase, KIADB Industrial

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Bangalore -560099

INDIA.

#### APPLICANT:

MICRO NOVA PHARMACEUTICALS IND LTD

Plot 3, Billings Way, Oregun

#### 8. Marketing authorization number(s)

B4-9667

#### 9. Date of first authorization/renewal of the authorization

12.03.2019

#### 10. Date of revision of the text

December 2021