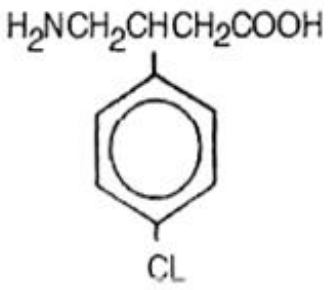
BACLOFEN - baclofen tablet
Northstar RxLLC

Rx Only

DESCRIPTION

Baclofen is a muscle relaxant and antispastic.

Its chemical name is 4-amino-3-(4-chlorophenyl) butanoic acid. The structural formula is:



$C_{10}H_{12}ClNO_2$ M.W. 213.66

Baclofen USP is a white to off-white, odorless or practically odorless crystalline powder. It is slightly soluble in water, very slightly soluble in methanol and insoluble in chloroform.

Each tablet, for oral administration, contains 10 mg or 20 mg Baclofen. In addition, each tablet contains the following inactive ingredients: colloidal silicon dioxide, microcrystalline cellulose, magnesium stearate, potato starch, povidone.

CLINICAL PHARMACOLOGY

The precise mechanism of action of baclofen is not fully known. Baclofen is capable of inhibiting both monosynaptic and polysynaptic reflexes at the spinal level, possibly by hyperpolarization of afferent terminals, although actions at supraspinal sites may also occur and contribute to its clinical effect. Although baclofen is an analog of the putative inhibitory neurotransmitter gamma-aminobutyric acid (GABA), there is no conclusive evidence that actions on GABA systems are involved in the production of its clinical effects. In studies with animals, baclofen has been shown to have general CNS depressant properties as indicated by the production of sedation with tolerance, somnolence, ataxia, and respiratory and cardiovascular depression. Baclofen is rapidly and extensively absorbed and eliminated. Absorption may be dose-dependent, being reduced with increasing doses. Baclofen is excreted primarily by the kidney in unchanged form and there is relatively large intersubject variation in absorption and/or elimination.

INDICATIONS AND USAGE

Baclofen tablets are useful for the alleviation of signs and symptoms of spasticity resulting from multiple sclerosis, particularly for the relief of flexor spasms and concomitant pain, clonus, and muscular rigidity.

Patients should have reversible spasticity so that baclofen tablet treatment will aid in restoring residual

function. Baclofen tablets may also be of some value in patients with spinal cord injuries and other spinal cord diseases.

Baclofen tablets are not indicated in the treatment of skeletal muscle spasm resulting from rheumatic disorders.The efficacy of baclofen tablets in stroke, cerebral palsy, and Parkinson's disease has not been established and, therefore, it is not recommended for these conditions.

CONTRAINDICATIONS

Hypersensitivity to baclofen.

WARNINGS

1. Abrupt Drug Withdrawal: Hallucinations and seizures have occurred on abrupt withdrawal of baclofen. Therefore, except for serious adverse reactions, the dose should be reduced slowly when the drug is discontinued.
2. Impaired Renal Function: Because baclofen is primarily excreted unchanged through the kidneys, it should be given with caution, and it may be necessary to reduce the dosage.
3. Stroke: Baclofen has not significantly benefited patients with stroke. These patients have also shown poor tolerability to the drug.
4. Pregnancy: Baclofen has been shown to increase the incidence of omphaloceles (ventral hernias) in fetuses of rats given approximately 13 times the maximum dose recommended for human use, at a dose which caused significant reductions in food intake and weight gain in dams. This abnormality was not seen in mice or rabbits.

There was also an increased incidence of incomplete sternebral ossification in fetuses of rats given approximately 13 times the maximum recommended human dose, and an increased incidence of unossified phalangeal nuclei of forelimbs and hindlimbs in fetuses of rabbits given approximately 7 times the maximum recommended human dose. In mice, no teratogenic effects were observed, although reductions in mean fetal weight with consequent delays in skeletal ossification were present when dams were given 17 and 34 times the human daily dose. There are no studies in pregnant women. Baclofen should be used during pregnancy only if the benefit clearly justifies the potential risk to the fetus.

PRECAUTIONS

Because of the possibility of sedation, patients should be cautioned regarding the operation of automobiles or other dangerous machinery, and activities made hazardous by decreased alertness. Patients should also be cautioned that the central nervous system effects of baclofen may be additive to those of alcohol and other CNS depressants.

Baclofen should be used with caution where spasticity is utilized to sustain upright posture and balance in locomotion or whenever spasticity is utilized to obtain increased function. In patients with epilepsy, the clinical state and electroencephalogram should be monitored at regular intervals, since deterioration in seizure control and EEG have been reported occasionally in patients taking baclofen.

It is not known whether this drug is excreted in human milk. As a general rule, nursing should not be undertaken while a patient is on a drug since many drugs are excreted in human milk.

A dose-related increase in incidence of ovarian cysts and a less marked increase in enlarged and/or hemorrhagic adrenal glands was observed in female rats treated chronically with baclofen.

Ovarian cysts have been found by palpation in about 4% of the multiple sclerosis patients that were treated with baclofen for up to one year. In most cases these cysts disappeared spontaneously while

patients continued to receive the drug. Ovarian cysts are estimated to occur spontaneously in approximately 1% to 5% of the normal female population.

Pediatric use

Safety and effectiveness in pediatric patients below the age of 12 years have not been established.

ADVERSE REACTIONS

The most common is transient drowsiness (10 to 63%). In one controlled study of 175 patients, transient drowsiness was observed in 63% of those receiving baclofen compared to 36% of those in the placebo group. Other common adverse reactions are dizziness (5 to 15%), weakness (5 to 15%) and fatigue (2 to 4%).

Others reported:

Neuropsychiatric: Confusion (1 to 11%), headache (4 to 8%), insomnia (2 to 7%); and, rarely, euphoria, excitement, depression, hallucinations, paresthesia, muscle pain, tinnitus, slurred speech, coordination disorder, tremor, rigidity, dystonia, ataxia, blurred vision, nystagmus, strabismus, miosis, mydriasis, diplopia, dysarthria, epileptic seizure.

Cardiovascular: Hypotension (0 to 9%). Rare instances of dyspnea, palpitation, chest pain, syncope.

Gastrointestinal: Nausea (4 to 12%), constipation (2 to 6%); and rarely, dry mouth, anorexia, taste disorder, abdominal pain, vomiting, diarrhea, and positive test for occult blood in stool.

Genitourinary: Urinary frequency (2 to 6%); and rarely, enuresis, urinary retention, dysuria, impotence, inability to ejaculate, nocturia, hematuria.

Other: Instances of rash, pruritus, ankle edema, excessive perspiration, weight gain, nasal congestion.Some of the CNS and genitourinary symptoms may be related to the underlying disease rather than to drug therapy. The following laboratory tests have been found to be abnormal in a few patients receiving baclofen: increased SGOT, elevated alkaline phosphatase, and elevation of blood sugar.

OVERDOSAGE

Signs and Symptoms: Vomiting, muscular hypotonia, drowsiness, accommodation disorders, coma, respiratory depression and seizures.

Treatment: In the alert patient, empty the stomach promptly by induced emesis followed by lavage. In the obtunded patient, secure the airway with a cuffed endotracheal tube before beginning lavage (do not induce emesis). Maintain adequate respiratory exchange, do not use respiratory stimulants.

DOSAGE AND ADMINISTRATION

The determination of optimal dosage requires individual titration. Start therapy at a low dosage and increase gradually until optimum effect is achieved (usually between 40-80 mg daily).

The following dosage titration schedule is suggested:

5 mg t.i.d. for 3 days

10 mg t.i.d. for 3 days

15 mg t.i.d. for 3 days

20 mg t.i.d. for 3 days

Thereafter additional increases may be necessary but the total daily dose should not exceed a maximum of 80 mg daily (20 mg q.i.d.).

The lowest dose compatible with an optimal response is recommended. If benefits are not evident after a reasonable trial period, patients should be slowly withdrawn from the drug (see WARNINGSAbrupt Drug Withdrawal).

HOW SUPPLIED

Baclofen Tablets, USP are supplied as:

10 mg: White colored, circular, flat, uncoated tablets with 'N029' debossed on one side and scoreline on the other side.

Bottles of 90	NDC	16714 – 071 – 03
Bottles of 100	NDC	16714 – 071 – 04
Bottles of 500	NDC	16714 – 071 – 05
Bottles of 1000	NDC	16714 – 071 – 06

20 mg: White colored, circular, flat, uncoated tablets with 'N030' debossed on one side and scoreline on the other side.

Bottles of 100	NDC	16714 – 072 – 04
Bottles of 500	NDC	16714 – 072 – 05
Bottles of 1000	NDC	16714 – 072 – 06

PHARMACIST: Dispense in a well-closed container as defined in the USP. Use child-resistant closure (as required).

Store at 20° to 25°C (68° to 77°F). [See USP Controlled Room Temperature].

Split tablet to be stored at controlled room temperature (20° to 25°C) for not more than 2 weeks.
KEEP THIS AND ALL MEDICATION OUT OF REACH OF CHILDREN.

Manufactured for: Northstar Rx LLC
Memphis, TN 38141

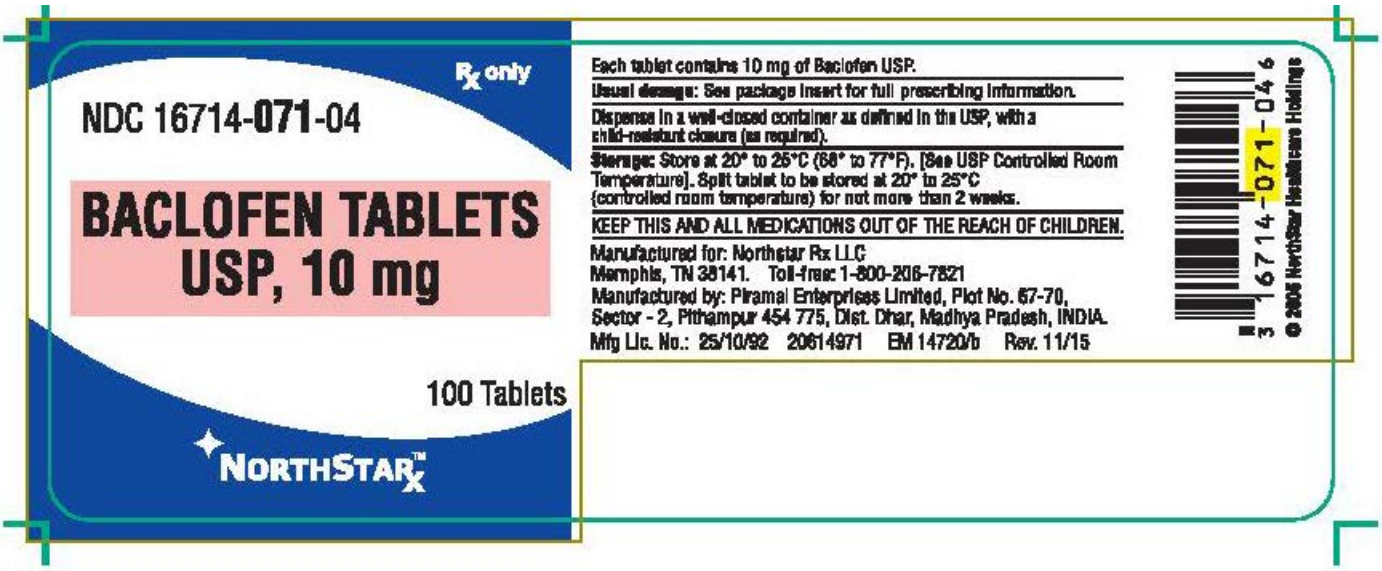
Toll Free Number: 1-800-206-7821

Manufactured by: Piramal Enterprises Limited,
Plot No 67-70, Sector - 2,
Pithampur, Madhya Pradesh 454775

INDIA.

November 2015

Principal Display panel -Baclofen Tablets USP, 10mg 100's pack



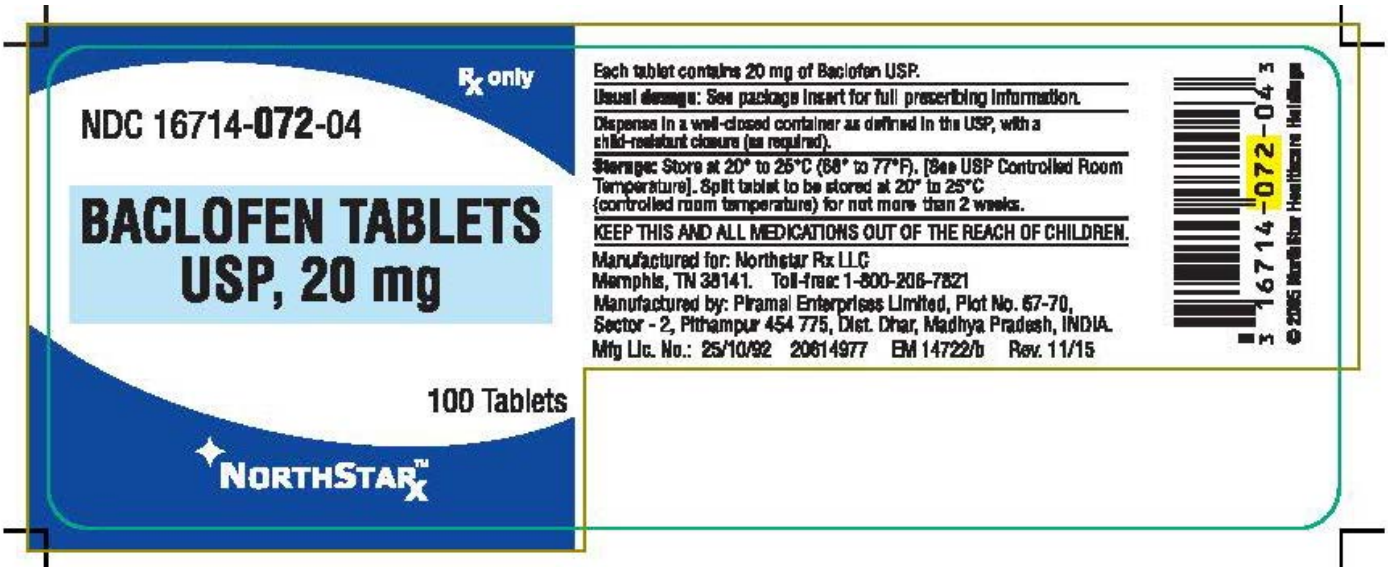
Rx only
NDC 16714-071-04
Baclofen Tablets USP, 10 mg
100 Tablets

Northstar

Each tablet contains 10mg of Baclofen USP
Usual dosage : See package insert for full prescribing information.
Dispense in a well-closed container as defined in the USP.,with a child-resistant closure(as required).

Storage : Store at 20° to 25° C (68° to 77° F).
[See USP Controlled Room Temperature].
Split tablet to be stored at 20° to 25° C (controlled room temperature) for not more than 2 weeks.
KEEP THIS AND ALL MEDICATIONS OUT OF THE REACH OF CHILDREN
Manufactured for: Northstar RxLLC
Memphis, TN 38141
Toll free: 1-800-206-7821
Manufactured by : Piramal Enterprises Limited, Plot no 67-70, Sector -2,
Pithampur 454775, Dist. Dhar, Madhya Pradesh, INDIA
Mfg.Lic.No.: 25/10/92
20614971
EM 14720/b
Rev.11/15
Bar code
Batch No.:
Exp.Date.:

Principal Display Panel -Baclofen Tablets USP, 20 mg 100's pack



Rx only

NDC 16714-072-04
Baclofen Tablets USP, 20 mg
100 Tablets

Northstar

Each Tablet contains 20 mg of Baclofen USP
Usual dosage : See package insert for full prescribing information.
Dispense in a well-closed container as defined in the USP, with a child-resistant closure(as required)

Storage : Store at 20° to 25° C (68° to 77° F).
[See USP Controlled Room Temperature].
Split tablet to be stored at 20° to 25° C (controlled room temperature) for not more than 2 weeks.

KEEP THIS AND ALL MEDICATIONS OUT OF REACH OF CHILDREN

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20614977
EM 14722/b
Rev.11/15
Bar code
Batch No.:
Exp.Date.:

BACLOFEN

baclofen tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:16714-071
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Baclofen (UNII: H789N3FKE8) (Baclofen - UNII:H789N3FKE8)	Baclofen	10 mg

Inactive Ingredients

Ingredient Name	Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
STARCH, POTATO (UNII: 8I089SAH3T)	
POVIDONE K30 (UNII: U725QWY32X)	

Product Characteristics

Color	WHITE	**Score**	2 pieces
Shape	ROUND (FLAT)	**Size**	8mm
Flavor		**Imprint Code**	N029
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:16714-071-03	90 in 1 BOTTLE; Type 0: Not a Combination Product		
2	NDC:16714-071-04	100 in 1 BOTTLE; Type 0: Not a Combination Product		
3	NDC:16714-071-05	500 in 1 BOTTLE; Type 0: Not a Combination Product		
4	NDC:16714-071-06	1000 in 1 BOTTLE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA078504	01/01/2011	

BACLOFEN

baclofen tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:16714-072
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Baclofen (UNII: H789N3FKE8) (Baclofen - UNII:H789N3FKE8)	Baclofen	20 mg

Inactive Ingredients

Ingredient Name	Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
STARCH, POTATO (UNII: 8I089SAH3T)	
POVIDONE K30 (UNII: U725QWY32X)	

Product Characteristics

Color	WHITE	**Score**	2 pieces
Shape	ROUND (FLAT)	**Size**	10mm
Flavor		**Imprint Code**	N030
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:16714-072-04	100 in 1 BOTTLE; Type 0: Not a Combination Product		
2	NDC:16714-072-05	500 in 1 BOTTLE; Type 0: Not a Combination Product		
3	NDC:16714-072-06	1000 in 1 BOTTLE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA078401	01/01/2011	

Labeler - Northstar RxLLC (830546433)

Registrant - Piramal Enterprises Limited (862202793)

Establishment

Name	Address	ID/FEI	Business Operations
Piramal Enterprises Limited		862202793	ANALYSIS(16714-071, 16714-072) , MANUFACTURE(16714-071, 16714-072) , PACK(16714-071, 16714-072)