ANNEX I SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

Levetiracetam Actavis 250 mg film-coated tablets Levetiracetam Actavis 500 mg film-coated tablets Levetiracetam Actavis 750 mg film-coated tablets Levetiracetam Actavis 1000 mg film-coated tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Levetiracetam Actavis 250 mg film-coated tablets

Each film-coated tablet contains 250 mg levetiracetam.

Levetiracetam Actavis 500 mg film-coated tablets

Each film-coated tablet contains 500 mg levetiracetam.

Levetiracetam Actavis 750 mg film-coated tablets

Each film-coated tablet contains 750 mg levetiracetam.

Excipient with known effect:

Each film-coated tablet contains 0.156 mg sunset yellow E110.

Levetiracetam Actavis 1000 mg film-coated tablets

Each film-coated tablet contains 1000 mg levetiracetam.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablet (tablet).

Levetiracetam Actavis 250 mg film-coated tablets

Oval, light blue, 13.6 x 6.4 mm marked with "L" on one side and "250" on the other side.

Levetiracetam Actavis 500 mg film-coated tablets

Oval, yellow, 17.1 x 8.1 mm marked with "L" on one side and "500" on the other side.

Levetiracetam Actavis 750 mg film-coated tablets

Oval, orange 19.0 x 9.3 mm marked with "L" on one side and "750" on the other side.

Levetiracetam Actavis 1000 mg film-coated tablets

Oval, white, 19.0 x 10.0 mm marked with "L" on one side and "1000" on the other side.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Levetiracetam Actavis is indicated as monotherapy in the treatment of partial onset seizures with or without secondary generalisation in adults and adolescents from 16 years of age with newly diagnosed epilepsy.

Levetiracetam Actavis is indicated as adjunctive therapy

- in the treatment of partial onset seizures with or without secondary generalisation in adults, adolescents, children and infants from 1 month of age with epilepsy.
- in the treatment of myoclonic seizures in adults and adolescents from 12 years of age with Juvenile Myoclonic Epilepsy.
- in the treatment of primary generalised tonic-clonic seizures in adults and adolescents from 12 years of age with Idiopathic Generalised Epilepsy.

4.2 Posology and method of administration

Posology

Partial onset seizures

The recommended dosing for monotherapy (from 16 years of age) and adjunctive therapy is the same; as outlined below.

All indications

Adults (≥18 years) and adolescents (12 to 17 years) weighing 50 kg or more

The initial therapeutic dose is 500 mg twice daily. This dose can be started on the first day of treatment. However, a lower initial dose of 250 mg twice daily may be given based on physician assessment of seizure reduction versus potential side effects. This can be increased to 500 mg twice daily after two weeks.

Depending upon the clinical response and tolerability, the daily dose can be increased up to 1500 mg twice daily. Dose changes can be made in 250 mg or 500 mg twice daily increases or decreases every two to four weeks.

Adolescents (12 to 17 years) weighing below 50 kg and children from 1 month of age
The physician should prescribe the most appropriate pharmaceutical form, presentation and strength according to weight, age and dose. Refer to *Paediatric population* section for dosing adjustments based on weight.

Discontinuation

If levetiracetam has to be discontinued it is recommended to withdraw it gradually (*e.g.* in adults and adolescents weighing more than 50 kg: 500 mg decreases twice daily every two to four weeks; in infants older than 6 months, children and adolescents weighing less than 50 kg: dose decrease should not exceed 10 mg/kg twice daily every two weeks; in infants (less than 6 months): dose decrease should not exceed 7 mg/kg twice daily every two weeks).

Special populations

Elderly (65 years and older)

Adjustment of the dose is recommended in elderly patients with compromised renal function (see "Renal impairment" below).

Renal impairment

The daily dose must be individualised according to renal function.

For adult patients, refer to the following table and adjust the dose as indicated. To use this dosing table, an estimate of the patient's creatinine clearance (CLcr) in ml/min is needed. The CLcr in ml/min may be estimated from serum creatinine (mg/dl) determination, for adults and adolescents weighing 50 kg or more, using the following formula:

Then CLcr is adjusted for body surface area (BSA) as follows:

CLcr (ml/min)

CLcr (ml/min/1.73
$$m^2$$
) = ----- x 1.73

BSA subject (m^2)

Dosing adjustment for adult and adolescent patients weighing more than 50 kg with impaired renal function

| Group | Creatinine clearance (ml/min/1.73 m²) | Dose and frequency |
|----------------------------------------------------------|---------------------------------------|-------------------------------|
| Normal | ≥80 | 500 to 1500 mg twice daily |
| Mild | 50-79 | 500 to 1000 mg twice daily |
| Moderate | 30-49 | 250 to 750 mg twice daily |
| Severe | < 30 | 250 to 500 mg twice daily |
| End-stage renal disease patients undergoing dialysis (1) | - | 500 to 1000 mg once daily (2) |

⁽¹⁾ A 750 mg loading dose is recommended on the first day of treatment with levetiracetam.

For children with renal impairment, levetiracetam dose needs to be adjusted based on the renal function as levetiracetam clearance is related to renal function. This recommendation is based on a study in adult renally impaired patients.

The CLcr in ml/min/1.73 m² may be estimated from serum creatinine (mg/dl) determination, for young adolescents, children and infants, using the following formula (Schwartz formula):

Ks= 0.45 in Term infants to 1 year old; ks= 0.55 in Children to less than 13 years and in adolescent female; ks= 0.7 in adolescent male.

Dosing adjustment for infants, children and adolescent patients weighing less than 50 kg with impaired renal function

| Group | Creatinine clearance | Dose and frequency (1) | | |
|--------|-------------------------------|------------------------------------------------|---------------------------------------------------------------------------|--|
| | (ml/min/1.73 m ²) | Infants 1 to less than 6 months | Infants 6 to 23 months, children and adolescents weighing less than 50 kg | |
| Normal | ≥ 80 | 7 to 21 mg/kg (0.07 to 0.21 ml/kg) twice daily | 10 to 30 mg/kg (0.10 to 0.30 ml/kg) twice daily | |

⁽²⁾ Following dialysis, a 250 to 500 mg supplemental dose is recommended.

| Mild | 50-79 | 7 to 14 mg/kg (0.07 to 0.14 ml/kg) twice daily | 10 to 20 mg/kg (0.10 to 0.20 ml/kg) twice daily |
|---------------------------------------------------------------|-------|------------------------------------------------------------|--------------------------------------------------------|
| Moderate | 30-49 | 3.5 to 10.5 mg/kg (0.035 to 0.105 ml/kg) twice daily | 5 to 15 mg/kg (0.05 to 0.15 ml/kg) twice daily |
| Severe | < 30 | 3.5 to 7 mg/kg (0.035 to 0.07 ml/kg) twice daily | 5 to 10 mg/kg (0.05 to 0.10 ml/kg) twice daily |
| End-stage renal disease patients undergoing dialysis | | 7 to 14 mg/kg (0.07 to 0.14 ml/kg) once daily (2) (4) | 10 to 20 mg/kg (0.10 to 0.20 ml/kg) once daily (3) (5) |

⁽¹⁾ An oral solution should be used for doses under 250 mg, for doses not multiple of 250 mg when dosing recommendation is not achievable by taking multiple tablets and for patients unable to swallow tablets.

Hepatic impairment

No dose adjustment is needed in patients with mild to moderate hepatic impairment. In patients with severe hepatic impairment, the creatinine clearance may underestimate the renal insufficiency. Therefore a 50 % reduction of the daily maintenance dose is recommended when the creatinine clearance is $< 60 \text{ ml/min}/1.73 \text{ m}^2$.

Paediatric population

The physician should prescribe the most appropriate pharmaceutical form, presentation and strength according to age, weight and dose.

The tablet formulation is not adapted for use in infants and children under the age of 6 years. An oral solution is the preferred formulation for use in this population. In addition, the available dose strengths of the tablets are not appropriate for initial treatment in children weighing less than 25 kg, for patients unable to swallow tablets or for the administration of doses below 250 mg. In all of the above cases an oral solution should be used.

Monotherapy

The safety and efficacy of levetiracetam in children and adolescents below 16 years as monotherapy treatment have not been established.

No data are available.

Adolescents (16 and 17 years of age) weighing 50 kg or more with partial onset seizures with or without secondary generalisation with newly diagnosed epilepsy.

Please refer to the above section on Adults (\geq 18 years) and adolescents (12 to 17 years) weighing 50 kg or more.

 $^{^{(2)}}$ A 10.5 mg/kg (0.105 ml/kg) loading dose is recommended on the first day of treatment with levetiracetam.

⁽³⁾ A 15 mg/kg (0.15 ml/kg) loading dose is recommended on the first day of treatment with levetiracetam.

⁽⁴⁾ Following dialysis, a 3.5 to 7 mg/kg (0.035 to 0.07 ml/kg) supplemental dose is recommended.

⁽⁵⁾ Following dialysis, a 5 to 10 mg/kg (0.05 to 0.10 ml/kg) supplemental dose is recommended.

Add-on therapy for infants aged from 6 to 23 months, children (2 to 11 years) and adolescents (12 to 17 years) weighing less than 50 kg

An oral solution is the preferred formulation for use in infants and children under the age of 6 years.

For children 6 years and above, an oral solution should be used for doses under 250 mg, for doses not multiple of 250 mg when dosing recommendation is not achievable by taking multiple tablets and for patients unable to swallow tablets.

The lowest effective dose should be used for all indications. The starting dose for a child or adolescent of 25 kg should be 250 mg twice daily with a maximum dose of 750 mg twice daily.

Dose in children 50 kg or greater is the same as in adults for all indications.

Please refer to the above section on *Adults* (≥18 years) and adolescents (12 to 17 years) weighing 50 kg or more for all indications.

Add-on therapy for infants aged from 1 month to less than 6 months

An oral solution is the formulation to use in infants.

Method of administration

The film-coated tablets must be taken orally, swallowed with a sufficient quantity of liquid and may be taken with or without food. After oral administration the bitter taste of levetiracetam may be experienced. The daily dose is administered in two equally divided doses.

4.3 Contraindications

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

4.4 Special warnings and precautions for use

Renal impairment

The administration of levetiracetam to patients with renal impairment may require dose adjustment. In patients with severely impaired hepatic function, assessment of renal function is recommended before dose selection (see section 4.2).

Acute kidney injury

The use of levetiracetam has been very rarely associated with acute kidney injury, with a time to onset ranging from a few days to several months.

Blood cell counts

Rare cases of decreased blood cell counts (neutropenia, agranulocytosis, leucopenia, thrombocytopenia and pancytopenia) have been described in association with levetiracetam administration, generally at the beginning of the treatment. Complete blood cell counts are advised in patients experiencing important weakness, pyrexia, recurrent infections or coagulation disorders (section 4.8).

Suicide

Suicide, suicide attempt, suicidal ideation and behaviour have been reported in patients treated with anti-epileptic agents (including levetiracetam). A meta-analysis of randomized placebo-controlled

trials of anti-epileptic medicinal products has shown a small increased risk of suicidal thoughts and behaviour. The mechanism of this risk is not known.

Therefore, patients should be monitored for signs of depression and/or suicidal ideation and behaviours and appropriate treatment should be considered. Patients (and caregivers of patients) should be advised to seek medical advice should signs of depression and/or suicidal ideation or behaviour emerge.

Abnormal and aggressive behaviours

Levetiracetam may cause psychotic symptoms and behavioural abnormalities including irritability and aggressiveness. Patients treated with levetiracetam should be monitored for developing psychiatric signs suggesting important mood and/or personality changes. If such behaviours are noticed, treatment adaptation or gradual discontinuation should be considered. If discontinuation is considered, please refer to section 4.2.

Worsening of seizures

As with other types of antiepileptic drugs, levetiracetam may rarely exacerbate seizure frequency or severity. This paradoxical effect was mostly reported within the first month after levetiracetam initiation or increase of the dose, and was reversible upon drug discontinuation or dose decrease. Patients should be advised to consult their physician immediately in case of aggravation of epilepsy. Lack of efficacy or seizure worsening has for example been reported in patients with epilepsy associated with sodium voltage-gated channel alpha subunit 8 (SCN8A) mutations.

Electrocardiogram QT interval prolongation

Rare cases of ECG QT interval prolongation have been observed during the post-marketing surveillance. Levetiracetam should be used with caution in patients with QTc-interval prolongation, in patients concomitantly treated with drugs affecting the QTc-interval, or in patients with relevant pre-existing cardiac disease or electrolyte disturbances.

Paediatric population

The tablet formulation is not adapted for use in infants and children under the age of 6 years.

Available data in children did not suggest impact on growth and puberty. However, long term effects on learning, intelligence, growth, endocrine function, puberty and childbearing potential in children remain unknown.

Levetiracetam Actavis 750 mg film-coated tablets

Levetiracetam Actavis 750 mg contains colouring agent sunset yellow (E110) which may cause allergic reactions.

4.5 Interaction with other medicinal products and other forms of interaction

Antiepileptic medicinal products

Pre-marketing data from clinical studies conducted in adults indicate that levetiracetam did not influence the serum concentrations of existing antiepileptic medicinal products (phenytoin, carbamazepine, valproic acid, phenobarbital, lamotrigine, gabapentin and primidone) and that these antiepileptic medicinal products did not influence the pharmacokinetics of levetiracetam.

As in adults, there is no evidence of clinically significant medicinal product interactions in paediatric patients receiving up to 60 mg/kg/day levetiracetam.

A retrospective assessment of pharmacokinetic interactions in children and adolescents with epilepsy (4 to 17 years) confirmed that adjunctive therapy with orally administered levetiracetam did not influence the steady-state serum concentrations of concomitantly administered carbamazepine and valproate. However, data suggested a 20 % higher levetiracetam clearance in children taking enzyme-inducing antiepileptic medicinal products. Dose adjustment is not required.

Probenecid

Probenecid (500 mg four times daily), a renal tubular secretion blocking agent, has been shown to inhibit the renal clearance of the primary metabolite, but not of levetiracetam. Nevertheless, the concentration of this metabolite remains low.

Methotrexate

Concomitant administration of levetiracetam and methotrexate has been reported to decrease methotrexate clearance, resulting in increased/prolonged blood methotrexate concentration to potentially toxic levels. Blood methotrexate and levetiracetam levels should be carefully monitored in patients treated concomitantly with the two drugs.

Oral contraceptives and other pharmacokinetics interactions

Levetiracetam 1000 mg daily did not influence the pharmacokinetics of oral contraceptives (ethinylestradiol and levonorgestrel); endocrine parameters (luteinizing hormone and progesterone) were not modified. Levetiracetam 2000 mg daily did not influence the pharmacokinetics of digoxin and warfarin; prothrombin times were not modified. Co-administration with digoxin, oral contraceptives and warfarin did not influence the pharmacokinetics of levetiracetam.

Laxatives

There have been isolated reports of decreased levetiracetam efficacy when the osmotic laxative macrogol has been concomitantly administered with oral levetiracetam. Therefore, macrogol should not be taken orally for one hour before and for one hour after taking levetiracetam.

Food and alcohol

The extent of absorption of levetiracetam was not altered by food, but the rate of absorption was slightly reduced.

No data on the interaction of levetiracetam with alcohol are available.

4.6 Fertility, pregnancy and lactation

Women of child bearing potential

Specialist advice should be given to women who are of childbearing potential. Treatment with levetiracetam should be reviewed when a woman is planning to become pregnant. As with all antiepileptic medicines, sudden discontinuation of levetiracetam should be avoided as this may lead to breakthrough seizures that could have serious consequences for the woman and the unborn child. Monotherapy should be preferred whenever possible because therapy with multiple antiepileptic medicines AEDs could be associated with a higher risk of congenital malformations than monotherapy, depending on the associated antiepileptics.

Pregnancy

A large amount of postmarketing data on pregnant women exposed to levetiracetam monotherapy (more than 1800, among which in more than 1500 exposure occurred during the 1st trimester) do not suggest an increase in the risk for major congenital malformations. Only limited evidence is available on the neurodevelopment of children exposed to levetiracetam monotherapy in utero. However,

current epidemiological studies (on about 100 children) do not suggest an increased risk of neurodevelopmental disorders or delays.

Levetiracetam can be used during pregnancy, if after careful assessment it is considered clinically needed. In such case, the lowest effective dose is recommended.

Physiological changes during pregnancy may affect levetiracetam concentration. Decrease in levetiracetam plasma concentrations has been observed during pregnancy. This decrease is more pronounced during the third trimester (up to 60 % of baseline concentration before pregnancy). Appropriate clinical management of pregnant women treated with levetiracetam should be ensured.

Breast-feeding

Levetiracetam is excreted in human breast milk. Therefore, breast-feeding is not recommended. However, if levetiracetam treatment is needed during breastfeeding, the benefit/risk of the treatment should be weighed considering the importance of breastfeeding.

Fertility

No impact on fertility was detected in animal studies (see section 5.3). No clinical data are available, potential risk for human is unknown.

4.7 Effects on ability to drive and use machines

Levetiracetam has minor or moderate influence on the ability to drive and use machines. Due to possible different individual sensitivity, some patients might experience somnolence or other central nervous system related symptoms, especially at the beginning of treatment or following a dose increase. Therefore, caution is recommended in those patients when performing skilled tasks, *e.g.* driving vehicles or operating machinery. Patients are advised not to drive or use machines until it is established that their ability to perform such activities is not affected.

4.8 Undesirable effects

Summary of the safety profile

The most frequently reported adverse reactions were nasopharyngitis, somnolence, headache, fatigue and dizziness. The adverse reaction profile presented below is based on the analysis of pooled placebo-controlled clinical trials with all indications studied, with a total of 3416 patients treated with levetiracetam. These data are supplemented with the use of levetiracetam in corresponding open-label extension studies, as well as post-marketing experience. The safety profile of levetiracetam is generally similar across age groups (adult and paediatric patients) and across the approved epilepsy indications.

Tabulated list of adverse reactions

Adverse reactions reported in clinical studies (adults, adolescents, children and infants >1 month) and from post-marketing experience are listed in the following table per System Organ Class and per frequency. Adverse reactions are presented in the order of decreasing seriousness and their frequency is defined as follows: very common ($\geq 1/100$); common ($\geq 1/100$) to < 1/100); rare ($\geq 1/10000$ to < 1/1000) and very rare (< 1/10000).

| | | | Frequency catego | ry | |
|-----------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| MedDRA SOC | Very common | Common | Uncommon | Rare | Very rare |
| Infections and infestations | Nasopharyngi tis | | | Infection | |
| Blood and lymphatic system disorders | | | Thrombocytope nia, leukopenia | Pancytopenia, neutropenia, agranulocytosis | |
| Immune system disorders | | | | Drug reaction with eosinophilia and systemic symptoms (DRESS) ⁽¹⁾ , Hypersensitivity (including angioedema and anaphylaxis) | |
| Metabolism and nutrition disorders | | Anorexia | Weight decreased, weight increase | Hyponatraemia | |
| Psychiatric disorders | | Depression, hostility/ aggression, anxiety, insomnia, nervousness/ irritability | Suicide attempt, suicidal ideation, psychotic disorder, abnormal behaviour, hallucination, anger, confusional state, panic attack, affect lability/mood swings, agitation | Completed suicide, personality disorder, thinking abnormal, delirium | Obsessive compulsive disorder ⁽²⁾ |
| Nervous system disorders | Somnolence, headache | Convulsion, balance disorder, dizziness, lethargy, tremor | Amnesia, memory impairment, coordination abnormal/ataxia , paraesthesia, disturbance in attention | Choreoathetosis, dyskinesia, hyperkinesia, gait disturbance, encephalopathy, seizures aggravated, Neuroleptic malignant syndrome ⁽³⁾ | |
| Eye disorders | | | Diplopia, vision blurred | | |
| Ear and labyrinth disorders Cardiac | | Vertigo | | Electrocardiogra | |
| disorders Respiratory, thoracic and mediastinal disorders | | Cough | | m QT prolonged | |

| | Frequency category | | | | |
|-----------------------|--------------------|------------|-----------------|--------------------------|-----------|
| MedDRA SOC | Very common | Common | <u>Uncommon</u> | Rare | Very rare |
| Gastrointestinal | | Abdominal | | Pancreatitis | |
| disorders | | pain, | | | |
| | | diarrhoea, | | | |
| | | dyspepsia, | | | |
| | | vomiting, | | | |
| | | nausea | | | |
| Hepatobiliary | | | Liver function | Hepatic failure, | |
| disorders | | | test abnormal | hepatitis | |
| Renal and | | | | Acute Kidney | |
| <u>Urinary</u> | | | | injury | |
| <u>Disorders</u> | | | | | |
| Skin and | | Rash | Alopecia, | Toxic epidermal | |
| <u>subcutaneous</u> | | | eczema, | necrolysis, | |
| tissue disorders | | | pruritus, | Stevens-Johnson | |
| | | | | syndrome, | |
| | | | | erythema | |
| | | | | multiforme | |
| <u>Musculoskeleta</u> | | | Muscular | Rhabdomyolysis | |
| 1 and | | | weakness, | and blood | |
| <u>connective</u> | | | myalgia | creatine | |
| tissue disorders | | | | phosphokinase | |
| | | | | increased ⁽³⁾ | |
| <u>General</u> | | Asthenia/ | | | |
| disorders and | | fatigue | | | |
| <u>administration</u> | | | | | |
| site conditions | | | | | |
| <u>Injury,</u> | | | Injury | | |
| poisoning and | | | | | |
| <u>procedural</u> | | | | | |
| complications | | | | | |

⁽¹⁾ See Description of selected adverse reactions.

Description of selected adverse reactions

Multiorgan hypersensitivity reactions

Multiorgan hypersensitivity reactions (also known as Drug Reaction with Eosinophilia and Systemic Symptoms, DRESS) have been reported rarely in patients treated with levetiracetam. Clinical manifestations may develop 2 to 8 weeks after starting treatment. These reactions are variable in expression, but typically present with fever, rash, facial oedema, lymphadenopathies, haematologic abnormalities and can be associated with involvement of different organ systems, mostly the liver. If multiorgan hypersensitivity reaction is suspected, levetiracetam should be discontinued.

The risk of anorexia is higher when levetiracetam is coadministered with topiramate. In several cases of alopecia, recovery was observed when levetiracetam was discontinued. Bone marrow suppression was identified in some of the cases of pancytopenia.

Cases of encephalopathy generally occurred at the beginning of the treatment (few days to a few months) and were reversible after treatment discontinuation.

⁽²⁾ Very rare cases of development of obsessive-compulsive disorders (OCD) in patients with underlying history of OCD or psychiatric disorders have been observed in post-marketing surveillance.

⁽³⁾ Prevalence is significantly higher in Japanese patients when compared to non-Japanese patients.

Paediatric population

In patients aged 1 month to less than 4 years, a total of 190 patients have been treated with levetiracetam in placebo-controlled and open label extension studies. Sixty of these patients were treated with levetiracetam in placebo-controlled studies. In patients aged 4-16 years, a total of 645 patients have been treated with levetiracetam in placebo-controlled and open label extension studies. 233 of these patients were treated with levetiracetam in placebo-controlled studies. In both these paediatric age ranges, these data are supplemented with the post-marketing experience of the use of levetiracetam.

In addition, 101 infants aged less than 12 months have been exposed in a post authorization safety study. No new safety concerns for levetiracetam were identified for infants less than 12 months of age with epilepsy.

The adverse reaction profile of levetiracetam is generally similar across age groups and across the approved epilepsy indications. Safety results in paediatric patients in placebo-controlled clinical studies were consistent with the safety profile of levetiracetam in adults except for behavioural and psychiatric adverse reactions which were more common in children than in adults. In children and adolescents aged 4 to 16 years, vomiting (very common, 11.2%), agitation (common, 3.4%), mood swings (common, 2.1%), affect lability (common, 1.7%), aggression (common, 8.2%), abnormal behaviour (common, 5.6%), and lethargy (common, 3.9%) were reported more frequently than in other age ranges or in the overall safety profile. In infants and children aged 1 month to less than 4 years, irritability (very common, 11.7%) and coordination abnormal (common, 3.3%) were reported more frequently than in other age groups or in the overall safety profile.

A double-blind, placebo-controlled paediatric safety study with a non-inferiority design has assessed the cognitive and neuropsychological effects of levetiracetam in children 4 to 16 years of age with partial onset seizures. It was concluded that levetiracetam was not different (non inferior) from placebo with regard to the change from baseline of the Leiter-R Attention and Memory, Memory Screen Composite score in the per-protocol population. Results related to behavioural and emotional functioning indicated a worsening in levetiracetam treated patients on aggressive behaviour as measured in a standardised and systematic way using a validated instrument (CBCL – Achenbach Child Behaviour Checklist). However subjects, who took levetiracetam in the long-term open label follow-up study, did not experience a worsening, on average, in their behavioural and emotional functioning; in particular measures of aggressive behaviour were not worse than baseline.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

4.9 Overdose

Symptoms

Somnolence, agitation, aggression, depressed level of consciousness, respiratory depression and coma were observed with levetiracetam overdoses.

Management of overdose

After an acute overdose, the stomach may be emptied by gastric lavage or by induction of emesis. There is no specific antidote for levetiracetam. Treatment of an overdose will be symptomatic and may include haemodialysis. The dialyser extraction efficiency is 60% for levetiracetam and 74% for the primary metabolite.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: antiepileptics, other antiepileptics, ATC code: N03AX14.

The active substance, levetiracetam, is a pyrrolidone derivative (S-enantiomer of α -ethyl-2-oxo-1-pyrrolidine acetamide), chemically unrelated to existing antiepileptic active substances.

Mechanism of action

The mechanism of action of levetiracetam still remains to be fully elucidated. *In vitro* and *in vivo* experiments suggest that levetiracetam does not alter basic cell characteristics and normal neurotransmission.

In vitro studies show that levetiracetam affects intraneuronal Ca^{2+} levels by partial inhibition of N-type Ca^{2+} currents and by reducing the release of Ca^{2+} from intraneuronal stores. In addition it partially reverses the reductions in GABA- and glycine-gated currents induced by zinc and β -carbolines. Furthermore, levetiracetam has been shown in *in vitro* studies to bind to a specific site in rodent brain tissue. This binding site is the synaptic vesicle protein 2A, believed to be involved in vesicle fusion and neurotransmitter exocytosis. Levetiracetam and related analogs show a rank order of affinity for binding to the synaptic vesicle protein 2A which correlates with the potency of their anti-seizure protection in the mouse audiogenic model of epilepsy. This finding suggests that the interaction between levetiracetam and the synaptic vesicle protein 2A seems to contribute to the antiepileptic mechanism of action of the medicinal product.

Pharmacodynamic effects

Levetiracetam induces seizure protection in a broad range of animal models of partial and primary generalised seizures without having a pro-convulsant effect. The primary metabolite is inactive. In man, an activity in both partial and generalised epilepsy conditions (epileptiform discharge/photoparoxysmal response) has confirmed the broad spectrum pharmacological profile of levetiracetam.

Clinical efficacy and safety

Adjunctive therapy in the treatment of partial onset seizures with or without secondary generalisation in adults, adolescents, children and infants from 1 month of age with epilepsy.

In adults, levetiracetam efficacy has been demonstrated in 3 double-blind, placebo-controlled studies at 1000 mg, 2000 mg, or 3000 mg/day, given in 2 divided doses, with a treatment duration of up to 18 weeks. In a pooled analysis, the percentage of patients who achieved 50 % or greater reduction from baseline in the partial onset seizure frequency per week at stable dose (12/14 weeks) was of 27.7 %, 31.6 % and 41.3 % for patients on 1000, 2000 or 3000 mg levetiracetam respectively and of 12.6 % for patients on placebo.

Paediatric population

In paediatric patients (4 to 16 years of age), levetiracetam efficacy was established in a double-blind, placebo-controlled study, which included 198 patients and had a treatment duration of 14 weeks. In this study, the patients received levetiracetam as a fixed dose of 60 mg/kg/day (with twice a day dosing).

44.6 % of the levetiracetam treated patients and 19.6 % of the patients on placebo had a 50 % or greater reduction from baseline in the partial onset seizure frequency per week. With continued long-term treatment, 11.4 % of the patients were seizure-free for at least 6 months and 7.2 % were seizure-free for at least 1 year.

In paediatric patients (1 month to less than 4 years of age), levetiracetam efficacy was established in a double-blind, placebo-controlled study, which included 116 patients and had a treatment duration of 5 days. In this study, patients were prescribed 20 mg/kg, 25 mg/kg, 40 mg/kg or 50 mg/kg daily dose of oral solution based on their age titration schedule. A dose of 20 mg/kg/day titrating to 40 mg/kg/day for infants one month to less than six months and a dose of 25 mg/kg/day titrating to 50 mg/kg/day for infants and children 6 months to less than 4 years old, was used in this study. The total daily dose was administered twice daily.

The primary measure of effectiveness was the responder rate (percent of patients with ≥ 50 % reduction from baseline in average daily partial onset seizure frequency) assessed by a blinded central reader using a 48-hour video EEG. The efficacy analysis consisted of 109 patients who had at least 24 hours of video EEG in both baseline and evaluation periods. 43.6 % of the levetiracetam treated patients and 19.6 % of the patients on placebo were considered as responders. The results are consistent across age group. With continued long-term treatment, 8.6 % of the patients were seizure-free for at least 6 months and 7.8 % were seizure-free for at least 1 year.

35 infants aged less than 1 year with partial onset seizures have been exposed in placebo-control clinical studies of which only 13 were aged < 6 months.

Monotherapy in the treatment of partial onset seizures with or without secondary generalisation in patients from 16 years of age with newly diagnosed epilepsy.

Efficacy of levetiracetam as monotherapy was established in a double-blind, parallel group, non-inferiority comparison to carbamazepine controlled release (CR) in 576 patients 16 years of age or older with newly or recently diagnosed epilepsy. The patients had to present with unprovoked partial seizures or with generalized tonic-clonic seizures only. The patients were randomized to carbamazepine CR 400--1200 mg/day or levetiracetam 1000--3000 mg/day, the duration of the treatment was up to 121 weeks depending on the response.

Six-month seizure freedom was achieved in 73.0 % of levetiracetam-treated patients and 72.8 % of carbamazepine-CR treated patients; the adjusted absolute difference between treatments was 0.2 % (95 % CI: -7.8 8.2). More than half of the subjects remained seizure free for 12 months (56.6 % and 58.5 % of subjects on levetiracetam and on carbamazepine CR respectively).

In a study reflecting clinical practice, the concomitant antiepileptic medication could be withdrawn in a limited number of patients who responded to levetiracetam adjunctive therapy (36 adult patients out of 69).

Adjunctive therapy in the treatment of myoclonic seizures in adults and adolescents from 12 years of age with Juvenile Myoclonic Epilepsy.

Levetiracetam efficacy was established in a double-blind, placebo-controlled study of 16 weeks duration, in patients 12 years of age and older suffering from idiopathic generalized epilepsy with myoclonic seizures in different syndromes. The majority of patients presented with juvenile myoclonic epilepsy.

In this study, levetiracetam, dose was 3000 mg/day given in 2 divided doses.

58.3 % of the levetiracetam treated patients and 23.3 % of the patients on placebo had at least a 50 % reduction in myoclonic seizure days per week. With continued long-term treatment, 28.6% of the patients were free of myoclonic seizures for at least 6 months and 21.0 % were free of myoclonic seizures for at least 1 year.

Adjunctive therapy in the treatment of primary generalised tonic-clonic seizures in adults and adolescents from 12 years of age with idiopathic generalised epilepsy.

Levetiracetam efficacy was established in a 24-week double-blind, placebo-controlled study which included adults, adolescents and a limited number of children suffering from idiopathic generalized epilepsy with primary generalized tonic-clonic (PGTC) seizures in different syndromes (juvenile myoclonic epilepsy, juvenile absence epilepsy, childhood absence epilepsy, or epilepsy with Grand Mal seizures on awakening). In this study, levetiracetam dose was 3000 mg/day for adults and adolescents or 60 mg/kg/day for children, given in 2 divided doses.

72.2 % of the levetiracetam treated patients and 45.2 % of the patients on placebo had a 50 % or greater decrease in the frequency of PGTC seizures per week. With continued long-term treatment, 47.4 % of the patients were free of tonic-clonic seizures for at least 6 months and 31.5 % were free of tonic-clonic seizures for at least 1 year.

5.2 Pharmacokinetic properties

Levetiracetam is a highly soluble and permeable compound. The pharmacokinetic profile is linear with low intra- and inter-subject variability. There is no modification of the clearance after repeated administration. There is no evidence for any relevant gender, race or circadian variability. The pharmacokinetic profile is comparable in healthy volunteers and in patients with epilepsy.

Due to its complete and linear absorption, plasma levels can be predicted from the oral dose of levetiracetam expressed as mg/kg bodyweight. Therefore, there is no need for plasma level monitoring of levetiracetam.

A significant correlation between saliva and plasma concentrations has been shown in adults and children (ratio of saliva/plasma concentrations ranged from 1 to 1.7 for oral tablet formulation and after 4 hours post-dose for oral solution formulation).

Adults and adolescents

Absorption

Levetiracetam is rapidly absorbed after oral administration. Oral absolute bioavailability is close to 100 %.

Peak plasma concentrations (C_{max}) are achieved at 1.3 hours after dosing. Steady-state is achieved after two days of a twice daily administration schedule.

Peak concentrations (C_{max}) are typically 31 and 43 µg/ml following a single 1000 mg dose and repeated 1000 mg twice daily dose, respectively.

The extent of absorption is dose-independent and is not altered by food.

Distribution

No tissue distribution data are available in humans.

Neither levetiracetam nor its primary metabolite are significantly bound to plasma proteins (< 10%). The volume of distribution of levetiracetam is approximately 0.5 to 0.7 l/kg, a value close to the total body water volume.

Biotransformation

Levetiracetam is not extensively metabolised in humans. The major metabolic pathway (24 % of the dose) is an enzymatic hydrolysis of the acetamide group. Production of the primary metabolite, ucb L057, is not supported by liver cytochrome P_{450} isoforms. Hydrolysis of the acetamide group was measurable in a large number of tissues including blood cells. The metabolite ucb L057 is pharmacologically inactive.

Two minor metabolites were also identified. One was obtained by hydroxylation of the pyrrolidone ring (1.6 % of the dose) and the other one by opening of the pyrrolidone ring (0.9 % of the dose). Other unidentified components accounted only for 0.6 % of the dose.

No enantiomeric interconversion was evidenced *in vivo* for either levetiracetam or its primary metabolite.

In vitro, levetiracetam and its primary metabolite have been shown not to inhibit the major human liver cytochrome P₄₅₀ isoforms (CYP3A4, 2A6, 2C9, 2C19, 2D6, 2E1 and 1A2), glucuronyl

transferase (UGT1A1 AND UGT1A6]) and epoxide hydroxylase activities. In addition, levetiracetam does not affect the *in vitro* glucuronidation of valproic acid.

In human hepatocytes in culture, levetiracetam had little or no effect on CYP1A2, SULT1E1 or UGT1A1. Levetiracetam caused mild induction of CYP2B6 and CYP3A4. The in vitro data and *in vivo* interaction data on oral contraceptives, digoxin and warfarin indicate that no significant enzyme induction is expected *in vivo*. Therefore, the interaction of Levetiracetam Actavis with other substances, or *vice versa*, is unlikely.

Elimination

The plasma half-life in adults was 7 ± 1 hours and did not vary either with dose, route of administration or repeated administration. The mean total body clearance was 0.96 ml/min/kg.

The major route of excretion was via urine, accounting for a mean 95 % of the dose (approximately 93 % of the dose was excreted within 48 hours). Excretion *via* faeces accounted for only 0.3 % of the dose.

The cumulative urinary excretion of levetiracetam and its primary metabolite accounted for 66 % and 24 % of the dose, respectively during the first 48 hours.

The renal clearance of levetiracetam and ucb L057 is 0.6 and 4.2 ml/min/kg respectively indicating that levetiracetam is excreted by glomerular filtration with subsequent tubular reabsorption and that the primary metabolite is also excreted by active tubular secretion in addition to glomerular filtration. Levetiracetam elimination is correlated to creatinine clearance.

Elderly

In the elderly, the half-life is increased by about 40 % (10 to 11 hours). This is related to the decrease in renal function in this population (see section 4.2).

Renal impairment

The apparent body clearance of both levetiracetam and of its primary metabolite is correlated to the creatinine clearance. It is therefore recommended to adjust the maintenance daily dose of Levetiracetam Actavis, based on creatinine clearance in patients with moderate and severe renal impairment (see section 4.2).

In anuric end-stage renal disease adult subjects the half-life was approximately 25 and 3.1 hours during interdialytic and intradialytic periods, respectively.

The fractional removal of levetiracetam was 51 % during a typical 4-hour dialysis session.

Hepatic impairment

In subjects with mild and moderate hepatic impairment, there was no relevant modification of the clearance of levetiracetam. In most subjects with severe hepatic impairment, the clearance of levetiracetam was reduced by more than 50 % due to a concomitant renal impairment (see section 4.2).

Paediatric population

Children (4 to 12 years)

Following single oral dose administration (20~mg/kg) to epileptic children (6~to~12~years), the half-life of levetiracetam was 6.0~hours. The apparent body weight adjusted clearance was approximately 30~% higher than in epileptic adults.

Following repeated oral dose administration (20 to 60 mg/kg/day) to epileptic children (4 to 12 years), levetiracetam was rapidly absorbed. Peak plasma concentration was observed 0.5 to 1.0 hour after dosing. Linear and dose proportional increases were observed for peak plasma concentrations and area

under the curve. The elimination half-life was approximately 5 hours. The apparent body clearance was 1.1 ml/min/kg.

Infants and children (1 month to 4 years)

Following single dose administration (20 mg/kg) of a 100 mg/ml oral solution to epileptic children (1 month to 4 years), levetiracetam was rapidly absorbed and peak plasma concentrations were observed approximately 1 hour after dosing. The pharmacokinetic results indicated that half-life was shorter (5.3 h) than for adults (7.2 h) and apparent clearance was faster (1.5 ml/min/kg) than for adults (0.96 ml/min/kg).

In the population pharmacokinetic analysis conducted in patients from 1 month to 16 years of age, body weight was significantly correlated to apparent clearance (clearance increased with an increase in body weight) and apparent volume of distribution. Age also had an influence on both parameters. This effect was pronounced for the younger infants, and subsided as age increased, to become negligible around 4 years of age.

In both population pharmacokinetic analyses, there was about a 20 % increase of apparent clearance of levetiracetam when it was co-administered with an enzyme-inducing antiepileptic medicinal product.

5.3 Preclinical safety data

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, genotoxicity and carcinogenic potential.

Adverse effects not observed in clinical studies but seen in the rat and to a lesser extent in the mouse at exposure levels similar to human exposure levels and with possible relevance for clinical use were liver changes, indicating an adaptive response such as increased weight and centrilobular hypertrophy, fatty infiltration and increased liver enzymes in plasma.

No adverse reactions on male or female fertility or reproduction performance were observed in rats at doses up to 1800 mg/kg/day (x 6 the MRHD on a mg/m² or exposure basis) in parents and F1 generation.

Two embryo-foetal development (EFD) studies were performed in rats at 400, 1200 and 3600 mg/kg/day. At 3600 mg/kg/day, in only one of the 2 EFD studies, there was a slight decrease in foetal weight associated with a marginal increase in skeletal variations/minor anomalies. There was no effect on embryomortality and no increased incidence of malformations. The NOAEL (No Observed Adverse Effect Level) was 3600 mg/kg/day for pregnant female rats (x 12 the MRHD on a mg/m^2 basis) and 1200 mg/kg/day for fetuses.

Four embryo-foetal development studies were performed in rabbits covering doses of 200, 600, 800, 1200 and 1800 mg/kg/day. The dose level of 1800 mg/kg/day induced a marked maternal toxicity and a decrease in foetal weight associated with increased incidence of foetuses with cardiovascular/skeletal anomalies. The NOAEL was <200 mg/kg/day for the dams and 200 mg/kg/day for the foetuses (equal to the MRHD on a mg/m² basis).

A peri- and post-natal development study was performed in rats with levetiracetam doses of 70, 350 and 1800 mg/kg/day. The NOAEL was \geq 1800 mg/kg/day for the F0 females, and for the survival, growth and development of the F1 offspring up to weaning (x 6 the MRHD on a mg/m² basis).

Neonatal and juvenile animal studies in rats and dogs demonstrated that there were no adverse effects seen in any of the standard developmental or maturation endpoints at doses up to 1800 mg/kg/day (x 6-17 the MRHD on a mg/m^2 basis).

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Levetiracetam Actavis 250 mg film-coated tablets

Crospovidon

Povidone

Silica colloidal anhydrous

Magnesium stearate

Polyvinyl alcohol – part. hydrolyzed

Macrogol 4000

Talc

Titanium dioxide (E171)

Indigo carmine (E132)

Levetiracetam Actavis 500 mg film-coated tablets

Crospovidon

Povidone

Silica colloidal anhydrous

Magnesium stearate

Polyvinyl alcohol – part. hydrolyzed

Macrogol 4000

Talc

Titanium dioxide (E171)

Iron oxide yellow (E172)

Indigo carmine (E132)

Levetiracetam Actavis 750 mg film-coated tablets

Crospovidon

Povidone

Silica colloidal anhydrous

Magnesium stearate

Polyvinyl alcohol – part. hydrolyzed

Macrogol 4000

Talc

Titanium dioxide (E171)

Indigo carmine (E132)

Sunset yellow (E110)

Iron oxide red (E172)

Levetiracetam Actavis 1000 mg film-coated tablets

Crospovidon

Povidone

Silica colloidal anhydrous

Magnesium stearate

Polyvinyl alcohol – part. hydrolyzed

Macrogol 4000

Talc

Titanium dioxide (E171)

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

3 years.

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

Aluminium/PVC blister packs.

White tablet containers (HDPE) closed with snap-on cap (LDPE) with a tamper evident ring.

Pack sizes:

Levetiracetam Actavis 250 mg, 500 mg and 1000 mg film-coated tablets

Blisters: 20, 30, 50, 60, 100, 120 and 200 film-coated tablets. Perforated unit dose blisters: 60 x 1 film-coated tablets. Tablet containers: 30, 100 and 200 film-coated tablets.

Levetiracetam Actavis 750 mg film-coated tablets

Blisters: 20, 30, 50, 60, 100, 120 and 200 film-coated tablets. Tablet containers: 30, 100 and 200 film-coated tablets.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Actavis Group PTC ehf. Dalshraun 1 220 Hafnarfjörður Iceland

8. MARKETING AUTHORISATION NUMBER(S)

Levetiracetam Actavis 250 mg film-coated tablets

EU/1/11/713/001

EU/1/11/713/002

EU/1/11/713/003

EU/1/11/713/004

EU/1/11/713/005

EU/1/11/713/006

EU/1/11/713/007

EU/1/11/713/008

EU/1/11/713/009

EU/1/11/713/010

EU/1/11/713/041

Levetiracetam Actavis 500 mg film-coated tablets

EU/1/11/713/011

EU/1/11/713/012

EU/1/11/713/013

EU/1/11/713/014

EU/1/11/713/015

EU/1/11/713/016

EU/1/11/713/017

EU/1/11//13/01/

EU/1/11/713/018 EU/1/11/713/019

EU/1/11/713/020

EU/1/11/713/042

Levetiracetam Actavis 750 mg film-coated tablets

EU/1/11/713/021

EU/1/11/713/022

EU/1/11/713/023

EU/1/11/713/024

EU/1/11/713/025

EU/1/11/713/026

EU/1/11/713/027

EU/1/11/713/028

EU/1/11/713/029

EU/1/11/713/030

Levetiracetam Actavis 1000 mg film-coated tablets

EU/1/11/713/031

EU/1/11/713/032

EU/1/11/713/033

EU/1/11/713/034

EU/1/11/713/035

EU/1/11/713/036

EU/1/11/713/037

EU/1/11/713/038

EU/1/11/713/039

EU/1/11/713/040

EU/1/11/713/043

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 03 October 2011 Date of latest renewal:08 September 2016

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency https://www.ema.europa.eu.

ANNEX II

- A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturers responsible for batch release

Teva Operations Poland Sp. z. o. o. ul. Mogilska 80 31-546 Kraków Poland

Tjoapack Netherlands B.V. Nieuwe Donk 9 ETTEN-LEUR, 4879AC Netherlands

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

• Periodic Safety Update Reports

The requirements for submission of periodic safety update report for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

• Risk Management Plan (RMP)

Not applicable.

ANNEX III LABELLING AND PACKAGE LEAFLET

A. LABELLING

| PARTICULARS TO APPEAR ON THE OUTER PACKAGING |
|-------------------------------------------------------------------------------------------------------------------------------------------|
| Carton of 250 mg film-coated tablets in tablet containers |
| |
| 1. NAME OF THE MEDICINAL PRODUCT |
| Levetiracetam Actavis 250 mg film-coated tablets levetiracetam |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) |
| Each film-coated tablet contains 250 mg levetiracetam. |
| 3. LIST OF EXCIPIENTS |
| |
| 4. PHARMACEUTICAL FORM AND CONTENTS |
| 30 film-coated tablets 100 film-coated tablets 200 film-coated tablets |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION |
| Read the package leaflet before use. Oral use |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN |
| Keep out of the sight and reach of children. |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY |
| 8. EXPIRY DATE |
| EXP |
| 9. SPECIAL STORAGE CONDITIONS |
| 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE |

| 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER |
|------------------------------------------------------------------------------------------|
| Actavis Group PTC ehf. 220 Hafnarfjörður Iceland |
| 12. MARKETING AUTHORISATION NUMBER(S) |
| EU/1/11/713/008 30 tablets EU/1/11/713/009 100 tablets EU/1/11/713/010 200 tablets |
| 13. BATCH NUMBER |
| Lot |
| 14. GENERAL CLASSIFICATION FOR SUPPLY |
| |
| 15. INSTRUCTIONS ON USE |
| |
| 16. INFORMATION IN BRAILLE |
| Levetiracetam Actavis 250 mg |
| 17. UNIQUE IDENTIFIER – 2D BARCODE |
| 2D barcode carrying the unique identifier included. |
| 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA |
| PC: {number} SN: {number} NN: {number} |

| PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING |
|-------------------------------------------------------------------------------------------------------------------------------------------|
| Label of 250 mg film-coated tablets in tablet containers |
| |
| 1. NAME OF THE MEDICINAL PRODUCT |
| Levetiracetam Actavis 250 mg tablets levetiracetam |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) |
| Each tablet contains 250 mg levetiracetam. |
| 3. LIST OF EXCIPIENTS |
| |
| 4. PHARMACEUTICAL FORM AND CONTENTS |
| 30 tablets 100 tablets 200 tablets |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION |
| Read the package leaflet before use. Oral use |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN |
| Keep out of the sight and reach of children. |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY |
| 8. EXPIRY DATE |
| EXP |
| 9. SPECIAL STORAGE CONDITIONS |
| 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE |

| 11. | NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER |
|-------------|--------------------------------------------------------|
| 5. A | |
| [Acta | ivis logo] |
| 12. | MARKETING AUTHORISATION NUMBER(S) |
| TT 1/1 | /11/712/000 20 . 11 . |
| | /11/713/008 |
| | /11/13/009 100 tablets /11/713/010 200 tablets |
| LO/ I | /11//13/010 200 tubicis |
| | |
| 13. | BATCH NUMBER |
| _ | |
| Lot | |
| | |
| 14. | GENERAL CLASSIFICATION FOR SUPPLY |
| 1., | GENERALE CENSOR TOTAL ON SCITE |
| | |
| | |
| 15. | INSTRUCTIONS ON USE |
| L | |
| | |
| 16. | INFORMATION IN BRAILLE |
| <u></u> | |
| 17. | UNIQUE IDENTIFIER – 2D BARCODE |
| | |
| 18. | UNIQUE IDENTIFIER - HUMAN READABLE DATA |
| 10, | ONIQUE IDENTIFIER - HUMAN READABLE DATA |

| PARTICULARS TO APPEAR ON THE OUTER PACKAGING |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Carton for Aluminium/PVC blisters |
| |
| 1. NAME OF THE MEDICINAL PRODUCT |
| Levetiracetam Actavis 250 mg film-coated tablets levetiracetam |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) |
| Each film-coated tablet contains 250 mg levetiracetam. |
| 3. LIST OF EXCIPIENTS |
| |
| 4. PHARMACEUTICAL FORM AND CONTENTS |
| 20 film-coated tablets 30 film-coated tablets 50 film-coated tablets 60 film-coated tablets 100 film-coated tablets 120 film-coated tablets 200 film-coated tablets 60 x 1 film-coated tablets |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION |
| Read the package leaflet before use. Oral use |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN |
| Keep out of the sight and reach of children. |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY |
| 8. EXPIRY DATE |
| EXP |
| 9. SPECIAL STORAGE CONDITIONS |

| 10. | SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS |
|------------|---------------------------------------------------------------|
| OR | WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF |
| AP | PROPRIATE |

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Actavis Group PTC ehf. 220 Hafnarfjörður Iceland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/11/713/001 20 tablets EU/1/11/713/002 30 tablets EU/1/11/713/003 50 tablets EU/1/11/713/004 60 tablets EU/1/11/713/005 100 tablets EU/1/11/713/006 120 tablets EU/1/11/713/007 200 tablets

Perforated unit dose blisters: EU/1/11/713/041 60 x 1 tablets

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Levetiracetam Actavis 250 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC: {number} SN: {number} NN: {number}

| MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS |
|-----------------------------------------------------|
| Blisters for 250 mg film-coated tablets |
| |
| 1. NAME OF THE MEDICINAL PRODUCT |
| Levetiracetam Actavis 250 mg tablets levetiracetam |
| 2. NAME OF THE MARKETING AUTHORISATION HOLDER |
| [Actavis logo] |
| 3. EXPIRY DATE |
| EXP |
| |
| 4. BATCH NUMBER |
| Lot |
| |
| 5 OTHER |

| PARTICULARS TO APPEAR ON THE OUTER PACKAGING |
|-------------------------------------------------------------------------------------------------------------------------------------------|
| Carton of 500 mg film-coated tablets in tablet containers |
| |
| 1. NAME OF THE MEDICINAL PRODUCT |
| Levetiracetam Actavis 500 mg film-coated tablets levetiracetam |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) |
| Each film-coated tablet contains 500 mg levetiracetam. |
| 3. LIST OF EXCIPIENTS |
| 4. PHARMACEUTICAL FORM AND CONTENTS |
| 4. PHARMACEUTICAL FORM AND CONTENTS |
| 30 film-coated tablets 100 film-coated tablets 200 film-coated tablets |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION |
| Read the package leaflet before use. Oral use |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN |
| Keep out of the sight and reach of children. |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY |
| 8. EXPIRY DATE |
| EXP |
| 9. SPECIAL STORAGE CONDITIONS |
| 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE |

| 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER |
|------------------------------------------------------------|
| Actavis Group PTC ehf. 220 Hafnarfjörður Iceland |
| |
| 12. MARKETING AUTHORISATION NUMBER(S) |
| EU/1/11/713/018 30 tablets |
| EU/1/11/713/019 100 tablets |
| EU/1/11/713/020 200 tablets |
| |
| 13. BATCH NUMBER |
| Lot |
| |
| 14. GENERAL CLASSIFICATION FOR SUPPLY |
| |
| 15. INSTRUCTIONS ON USE |
| A NOTICE CITE OF COLD |
| 16. INFORMATION IN BRAILLE |
| IV. EVI ORMATION IN BRAILLE |
| Levetiracetam Actavis 500 mg |
| |
| 17. UNIQUE IDENTIFIER – 2D BARCODE |
| 2D barcode carrying the unique identifier included. |
| |
| 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA |
| DC: (mumb on) |
| PC: {number} SN: {number} |
| NN: {number} |

| PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING |
|-------------------------------------------------------------------------------------------------------------------------------------------|
| Label of 500 mg film-coated tablets in tablet containers |
| |
| 1. NAME OF THE MEDICINAL PRODUCT |
| Levetiracetam Actavis 500 mg tablets levetiracetam |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) |
| Each tablet contains 500 mg levetiracetam. |
| 3. LIST OF EXCIPIENTS |
| |
| 4. PHARMACEUTICAL FORM AND CONTENTS |
| 30 tablets 100 tablets 200 tablets |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION |
| Read the package leaflet before use. Oral use |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN |
| Keep out of the sight and reach of children. |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY |
| 8. EXPIRY DATE |
| EXP |
| 9. SPECIAL STORAGE CONDITIONS |
| 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE |

| 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER |
|------------------------------------------------------------------------------------------|
| [Actavis logo] |
| 12. MARKETING AUTHORISATION NUMBER(S) |
| EU/1/11/713/018 30 tablets EU/1/11/713/019 100 tablets EU/1/11/713/020 200 tablets |
| 13. BATCH NUMBER |
| Lot |
| 14. GENERAL CLASSIFICATION FOR SUPPLY |
| |
| 15. INSTRUCTIONS ON USE |
| |
| 16. INFORMATION IN BRAILLE |
| 17. UNIQUE IDENTIFIER – 2D BARCODE |
| 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA |
| |

| PARTICULARS TO APPEAR ON THE OUTER PACKAGING |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Carton for Aluminium/PVC blisters |
| |
| 1. NAME OF THE MEDICINAL PRODUCT |
| Levetiracetam Actavis 500 mg film-coated tablets levetiracetam |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) |
| Each film-coated tablet contains 500 mg levetiracetam. |
| 3. LIST OF EXCIPIENTS |
| |
| 4. PHARMACEUTICAL FORM AND CONTENTS |
| 30 film-coated tablets 50 film-coated tablets 60 film-coated tablets 100 film-coated tablets 120 film-coated tablets 200 film-coated tablets 60 x 1 film-coated tablets |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION |
| Read the package leaflet before use. Oral use |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN |
| Keep out of the sight and reach of children. |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY |
| |
| 8. EXPIRY DATE |
| EXP |
| 9. SPECIAL STORAGE CONDITIONS |

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Actavis Group PTC ehf. 220 Hafnarfjörður Iceland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/11/713/011 20 tablets EU/1/11/713/012 30 tablets EU/1/11/713/013 50 tablets EU/1/11/713/014 60 tablets EU/1/11/713/015 100 tablets EU/1/11/713/016 120 tablets EU/1/11/713/017 200 tablets

Perforated unit dose blisters: EU/1/11/713/042 60 x 1 tablets

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Levetiracetam Actavis 500 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC: {number} SN: {number} NN: {number}

| MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS | | |
|-----------------------------------------------------|--|--|
| Blisters for 500 mg film-coated tablets | | |
| | | |
| 1. NAME OF THE MEDICINAL PRODUCT | | |
| Levetiracetam Actavis 500 mg tablets levetiracetam | | |
| 2. NAME OF THE MARKETING AUTHORISATION HOLDER | | |
| [Actavis logo] | | |
| 3. EXPIRY DATE | | |
| EXP | | |
| | | |
| 4. BATCH NUMBER | | |
| Lot | | |
| | | |
| 5 OTHER | | |

| PARTICULARS TO APPEAR ON THE OUTER PACKAGING | | |
|-------------------------------------------------------------------------------------------------------------------------------|--|--|
| Carton of 750 mg film-coated tablets in tablet containers | | |
| | | |
| 1. NAME OF THE MEDICINAL PRODUCT | | |
| Levetiracetam Actavis 750 mg film-coated tablets levetiracetam | | |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) | | |
| Each film-coated tablet contains 750 mg levetiracetam. | | |
| 3. LIST OF EXCIPIENTS | | |
| Contains colouring agent sunset yellow (E110). See leaflet for further information. | | |
| 4. PHARMACEUTICAL FORM AND CONTENTS | | |
| 30 film-coated tablets 100 film-coated tablets 200 film-coated tablets | | |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION | | |
| Read the package leaflet before use. Oral use | | |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN | | |
| Keep out of the sight and reach of children. | | |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY | | |
| | | |
| 8. EXPIRY DATE | | |
| EXP | | |
| 9. SPECIAL STORAGE CONDITIONS | | |
| 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF | | |

| 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER |
|------------------------------------------------------------------------------------------|
| Actavis Group PTC ehf. 220 Hafnarfjörður Iceland |
| 12. MARKETING AUTHORISATION NUMBER(S) |
| EU/1/11/713/028 30 tablets EU/1/11/713/029 100 tablets EU/1/11/713/030 200 tablets |
| 13. BATCH NUMBER |
| Lot |
| 14. GENERAL CLASSIFICATION FOR SUPPLY |
| |
| 15. INSTRUCTIONS ON USE |
| |
| 16. INFORMATION IN BRAILLE |
| Levetiracetam Actavis 750 mg |
| 17. UNIQUE IDENTIFIER – 2D BARCODE |
| 2D barcode carrying the unique identifier included. |
| 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA |
| PC: {number} SN: {number} NN: {number} |

| PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING | |
|-------------------------------------------------------------------------------------------------------------------------------------------|--|
| Label of 750 mg film-coated tablets in tablet containers | |
| | |
| 1. NAME OF THE MEDICINAL PRODUCT | |
| Levetiracetam Actavis 750 mg tablets levetiracetam | |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) | |
| Each tablet contains 750 mg levetiracetam. | |
| 3. LIST OF EXCIPIENTS | |
| Contains colouring agent sunset yellow (E110). | |
| 4. PHARMACEUTICAL FORM AND CONTENTS | |
| 30 tablets 100 tablets 200 tablets | |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION | |
| Read the package leaflet before use. Oral use | |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN | |
| Keep out of the sight and reach of children. | |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY | |
| 8. EXPIRY DATE | |
| EXP | |
| 9. SPECIAL STORAGE CONDITIONS | |
| 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE | |

| 11. | NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER |
|------|--------------------------------------------------------|
| F.A | |
| [Act | avis logo] |
| | |
| 12. | MARKETING AUTHORISATION NUMBER(S) |
| EU/1 | 1/11/713/028 <i>30 tablets</i> |
| | 1/11/713/029 100 tablets |
| EU/1 | 1/11/713/030 200 tablets |
| | |
| 13. | BATCH NUMBER |
| | |
| Lot | |
| | |
| 14. | GENERAL CLASSIFICATION FOR SUPPLY |
| | |
| | |
| 15. | INSTRUCTIONS ON USE |
| | |
| 16. | INFORMATION IN BRAILLE |
| 10. | INFORMATION IN BRAILLE |
| 17. | UNIQUE IDENTIFIER – 2D BARCODE |
| | |
| 10 | LINIQUE IDENTIFIED THIMAN DEADADLE DATA |
| 18. | UNIQUE IDENTIFIER - HUMAN READABLE DATA |
| | |

| PARTICULARS TO APPEAR ON THE OUTER PACKAGING | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Carton for Aluminium/PVC blisters | | |
| | | |
| 1. NAME OF THE MEDICINAL PRODUCT | | |
| Levetiracetam Actavis 750 mg film-coated tablets levetiracetam | | |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) | | |
| Each film-coated tablet contains 750 mg levetiracetam. | | |
| 3. LIST OF EXCIPIENTS | | |
| Contains colouring agent sunset yellow (E110). See leaflet for further information. | | |
| 4. PHARMACEUTICAL FORM AND CONTENTS | | |
| 20 film-coated tablets 30 film-coated tablets 50 film-coated tablets 60 film-coated tablets 100 film-coated tablets 120 film-coated tablets 200 film-coated tablets | | |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION | | |
| Read the package leaflet before use. Oral use | | |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN | | |
| Keep out of the sight and reach of children. | | |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY | | |
| | | |
| 8. EXPIRY DATE | | |
| EXP | | |
| 9. SPECIAL STORAGE CONDITIONS | | |

| 10. | SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS |
|------------|---------------------------------------------------------------|
| OR | WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF |
| AP | PROPRIATE |

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Actavis Group PTC ehf. 220 Hafnarfjörður Iceland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/11/713/021 20 tablets EU/1/11/713/022 30 tablets EU/1/11/713/023 50 tablets EU/1/11/713/024 60 tablets EU/1/11/713/025 100 tablets EU/1/11/713/026 120 tablets EU/1/11/713/027 200 tablets

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Levetiracetam Actavis 750 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC: {number} SN: {number} NN: {number}

| MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS | | |
|-----------------------------------------------------|--|--|
| Blisters for 750 mg film-coated tablets | | |
| | | |
| 1. NAME OF THE MEDICINAL PRODUCT | | |
| Levetiracetam Actavis 750 mg tablets levetiracetam | | |
| 2. NAME OF THE MARKETING AUTHORISATION HOLDER | | |
| [Actavis logo] | | |
| 3. EXPIRY DATE | | |
| EXP | | |
| | | |
| 4. BATCH NUMBER | | |
| Lot | | |
| | | |
| 5 OTHER | | |

| PARTICULARS TO APPEAR ON THE OUTER PACKAGING | | |
|-------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Carton of 1000 mg film-coated tablets in tablet containers | | |
| | | |
| 1. NAME OF THE MEDICINAL PRODUCT | | |
| Levetiracetam Actavis 1000 mg film-coated tablets levetiracetam | | |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) | | |
| Each film-coated tablet contains 1000 mg levetiracetam. | | |
| 3. LIST OF EXCIPIENTS | | |
| | | |
| 4. PHARMACEUTICAL FORM AND CONTENTS | | |
| 30 film-coated tablets 100 film-coated tablets 200 film-coated tablets | | |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION | | |
| Read the package leaflet before use. Oral use | | |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN | | |
| Keep out of the sight and reach of children. | | |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY | | |
| 8. EXPIRY DATE | | |
| EXP | | |
| 9. SPECIAL STORAGE CONDITIONS | | |
| 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE | | |

| 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER |
|------------------------------------------------------------|
| Actavis Group PTC ehf. 220 Hafnarfjörður Iceland |
| |
| 12. MARKETING AUTHORISATION NUMBER(S) |
| EU/1/11/713/038 30 tablets |
| EU/1/11/713/039 100 tablets EU/1/11/713/040 200 tablets |
| |
| 13. BATCH NUMBER |
| Lot |
| 14. GENERAL CLASSIFICATION FOR SUPPLY |
| |
| 15. INSTRUCTIONS ON USE |
| |
| 16. INFORMATION IN BRAILLE |
| Levetiracetam Actavis 1000 mg |
| 17. UNIQUE IDENTIFIER – 2D BARCODE |
| 2D barcode carrying the unique identifier included. |
| 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA |
| PC: {number} |
| SN: {number} |
| NN: {number} |

| PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING | | |
|-------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Label of 1000 mg film-coated tablets in tablet containers | | |
| | | |
| 1. NAME OF THE MEDICINAL PRODUCT | | |
| Levetiracetam Actavis 1000 mg tablets levetiracetam | | |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) | | |
| Each tablet contains 1000 mg levetiracetam. | | |
| 3. LIST OF EXCIPIENTS | | |
| | | |
| 4. PHARMACEUTICAL FORM AND CONTENTS | | |
| 30 tablets 100 tablets 200 tablets | | |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION | | |
| Read the package leaflet before use. Oral use | | |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN | | |
| Keep out of the sight and reach of children. | | |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY | | |
| 8. EXPIRY DATE | | |
| EXP | | |
| 9. SPECIAL STORAGE CONDITIONS | | |
| 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE | | |

| 11. | NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER |
|--------|--------------------------------------------------------|
| [Act: | avis logo] |
| [2 100 | |
| 12. | MARKETING AUTHORISATION NUMBER(S) |
| | |
| | 1/11/713/038 <i>30 tablets</i> |
| | 1/11/713/039 100 tablets |
| EU/1 | 1/11/713/040 200 tablets |
| | |
| 13. | BATCH NUMBER |
| Lot | |
| LU | |
| 1.1 | CENTED AT CY ACCURACY TYON FOR CURRY V |
| 14. | GENERAL CLASSIFICATION FOR SUPPLY |
| | |
| 15. | INSTRUCTIONS ON USE |
| | |
| 16. | INFORMATION IN BRAILLE |
| | |
| 17. | UNIQUE IDENTIFIER – 2D BARCODE |
| | |
| 18. | UNIQUE IDENTIFIER - HUMAN READABLE DATA |
| | |

| PARTICULARS TO APPEAR ON THE OUTER PACKAGING | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Carton for Aluminium/PVC blisters | | |
| | | |
| 1. NAME OF THE MEDICINAL PRODUCT | | |
| Levetiracetam Actavis 1000 mg film-coated tablets levetiracetam | | |
| 2. STATEMENT OF ACTIVE SUBSTANCE(S) | | |
| Each film-coated tablet contains 1000 mg levetiracetam. | | |
| 3. LIST OF EXCIPIENTS | | |
| | | |
| 4. PHARMACEUTICAL FORM AND CONTENTS | | |
| 20 film-coated tablets 30 film-coated tablets 50 film-coated tablets 60 film-coated tablets 100 film-coated tablets 120 film-coated tablets 200 film-coated tablets 60 x 1 film-coated tablets | | |
| 5. METHOD AND ROUTE(S) OF ADMINISTRATION | | |
| Read the package leaflet before use. Oral use | | |
| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN | | |
| Keep out of the sight and reach of children. | | |
| 7. OTHER SPECIAL WARNING(S), IF NECESSARY | | |
| | | |
| 8. EXPIRY DATE | | |
| EXP | | |
| 9. SPECIAL STORAGE CONDITIONS | | |
| | | |

| 10. | SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS |
|------------|---------------------------------------------------------------|
| OR | WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF |
| ΔPI | PROPRIATE |

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Actavis Group PTC ehf. 220 Hafnarfjörður Iceland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/11/713/031 20 tablets EU/1/11/713/032 30 tablets EU/1/11/713/033 50 tablets EU/1/11/713/034 60 tablets EU/1/11/713/035 100 tablets EU/1/11/713/036 120 tablets EU/1/11/713/037 200 tablets

Perforated unit dose blisters: EU/1/11/713/043 60 x 1 tablets

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Levetiracetam Actavis 1000 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC: {number} SN: {number} NN: {number}

| MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS | | |
|-----------------------------------------------------|--|--|
| Blisters for 1000 mg film-coated tablets | | |
| | | |
| 1. NAME OF THE MEDICINAL PRODUCT | | |
| Levetiracetam Actavis 1000 mg tablets levetiracetam | | |
| 2. NAME OF THE MARKETING AUTHORISATION HOLDER | | |
| [Actavis logo] | | |
| 3. EXPIRY DATE | | |
| EXP | | |
| 4. BATCH NUMBER | | |
| Lot | | |
| 5 OTHER | | |

B. PACKAGE LEAFLET

Package Leaflet: Information for the patient

Levetiracetam Actavis 250 mg film-coated tablets Levetiracetam Actavis 500 mg film-coated tablets Levetiracetam Actavis 750 mg film-coated tablets Levetiracetam Actavis 1000 mg film-coated tablets

levetiracetam

Read all of this leaflet carefully before you or your child start taking this medicine because it contains important information for you.

- 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 only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet:

- 1. What Levetiracetam Actavis is and what it is used for
- 2. What you need to know before you take Levetiracetam Actavis
- 3. How to take Levetiracetam Actavis
- 4. Possible side effects
- 5. How to store Levetiracetam Actavis
- 6. Contents of the pack and other information

1. What Levetiracetam Actavis is and what it is used for

Levetiracetam is an antiepileptic medicine (a medicine used to treat seizures in epilepsy).

Levetiracetam Actavis is used:

- on its own in adults and adolescents from 16 years of age with newly diagnosed epilepsy, to treat a certain form of epilepsy. Epilepsy is a condition where the patients have repeated fits (seizures). Levetiracetam is used for the epilepsy form in which the fits initially affect only one side of the brain, but could thereafter extend to larger areas on both sides of the brain (partial onset seizure with or without secondary generalisation). Levetiracetam has been given to you by your doctor to reduce the number of fits.
- as an add-on to other antiepileptic medicines to treat:
 - partial onset seizures with or without generalisation in adults, adolescents, children and infants from one month of age;
 - myoclonic seizures (short, shock-like jerks of a muscle or group of muscles) in adults and adolescents from 12 years of age with juvenile myoclonic epilepsy;
 - primary generalised tonic-clonic seizures (major fits, including loss of consciousness) in adults and adolescents from 12 years of age with idiopathic generalised epilepsy (the type of epilepsy that is thought to have a genetic cause).

2. What you need to know before you take Levetiracetam Actavis

Do not take Levetiracetam Actavis

• if you are allergic to levetiracetam, pyrrolidone derivatives or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions

Talk to your doctor before taking Levetiracetam Actavis

- If you suffer from kidney problems, follow your doctor's instructions. He/she may decide if your dose should be adjusted.
- If you notice any slow down in the growth or unexpected puberty development of your child, please contact your doctor.
- A small number of people being treated with anti-epileptics such as Levetiracetam Actavis have had thoughts of harming or killing themselves. If you have any symptoms of depression and/or suicidal ideation, please contact your doctor.
- If you have a family or medical history of irregular heart rhythm (visible on an electrocardiogram), or if you have a disease and/or take a treatment that make(s) you prone to heartbeat irregularities or salt imbalances.

Tell your doctor or pharmacist if any of the following side effects gets serious or last longer than a few days:

- Abnormal thoughts, feeling irritable or reacting more aggressively than usually, or if you or your family and friends notice important changes in mood or behaviour.
- Aggravation of epilepsy:
 - Your seizures may rarely become worse or happen more often, mainly during the first month after the start of the treatment or increase of the dose.
 - In a very rare form of early-onset epilepsy (epilepsy associated with SCN8A mutations) that causes multiple types of seizures and loss of skills you may notice that the seizures remain present or are becoming worse during your treatment.

If you experience any of these new symptoms while taking Levetiracetam Actavis, see a doctor as soon as possible.

Children and adolescents

Levetiracetam Actavis is not indicated in children and adolescents below 16 years on its own (monotherapy).

Other medicines and Levetiracetam Actavis

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

Do not take macrogol (a drug used as laxative) for one hour before and one hour after taking levetiracetam as this may result in a loss of its effect.

Pregnancy and breast-feeding

If you are pregnant or breastfeeding, think you may be pregnant or are planning to have a baby, ask your doctor for advice before taking this medicine. Levetiracetam can be used during pregnancy, only if after careful assessment it is considered necessary by your doctor.

You should not stop your treatment without discussing this with your doctor.

A risk of birth defects for your unborn child cannot be completely excluded.

Breast-feeding is not recommended during treatment.

Driving and using machines

Levetiracetam Actavis may impair your ability to drive or operate any tools or machinery, as it may make you feel sleepy. This is more likely at the beginning of treatment or after an increase in the dose. You should not drive or use machines until it is established that your ability to perform such activities is not affected.

Levetiracetam Actavis 750 mg tablets contain Sunset Yellow (E110)

Sunset Yellow (E110) colouring agent may cause allergic reactions.

3. How to take Levetiracetam Actavis

Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

Take the number of tablets following your doctor's instructions.

Levetiracetam Actavis must be taken twice a day, once in the morning and once in the evening, at about the same time each day.

Adjunctive Therapy and monotherapy (from 16 years of age)

• Adults (≥18 years) and adolescents (12 to 17 years) weighing 50 kg or more:

Recommended dose: between 1000 mg and 3000 mg each day.

When you will first start taking Levetiracetam Actavis, your doctor will prescribe you a **lower dose** during 2 weeks before giving you the lowest daily dose. *Example: if your daily dose is intended to be 1000 mg, your reduced starting dose is 1 tablet of 250 mg in the morning and 1 tablet of 250 mg in the evening, and the dose will be gradually incremented to reach 1000 mg daily after 2 weeks.*

• Adolescents (12 to 17 years) weighing 50 kg or less:

Your doctor will prescribe the most appropriate pharmaceutical form of Levetiracetam Actavis according to weight and dose.

Dose in infants (1 month to 23 months) and children (2 to 11 years) weighing less than 50 kg:

Your doctor will prescribe the most appropriate pharmaceutical form of levetiracetam according to the age, weight and dose.

An oral solution is a formulation more appropriate to infants and children under the age of 6 years and to children and adolescents (from 6 to 17 years) weighing less than 50 kg and when tablets do not allow accurate dosage.

Method of administration

Swallow Levetiracetam Actavis tablets with a sufficient quantity of liquid (*e.g.* a glass of water). You may take Levetiracetam Actavis with or without food. After oral administration the bitter taste of levetiracetam may be experienced.

Duration of treatment

- Levetiracetam Actavis is used as a chronic treatment. You should continue Levetiracetam Actavis treatment for as long as your doctor has told you.
- Do not stop your treatment without your doctor's advice as this could increase your seizures.

If you take more Levetiracetam Actavis than you should

The possible side effects of an overdose of levetiracetam are sleepiness, agitation, aggression, decrease of alertness, inhibition of breathing and coma.

Contact your doctor if you took more tablets than you should. Your doctor will establish the best possible treatment of overdose.

If you forget to take Levetiracetam Actavis

Contact your doctor if you have missed one or more doses.

Do not take a double dose to make up for a forgotten tablet.

If you stop taking Levetiracetam Actavis

If stopping treatment, Levetiracetam Actavis should be discontinued gradually to avoid an increase of seizures. Should your doctor decide to stop your Levetiracetam Actavis treatment, he/she will instruct you about the gradual withdrawal of Levetiracetam Actavis.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Tell your doctor immediately, or go to your nearest emergency department, if you experience:

- weakness, feel light-headed or dizzy or have difficulty breathing, as these may be signs of a serious allergic (anaphylactic) reaction;
- swelling of the face, lips, tongue and throat (Quincke's oedema);
- flu-like symptoms and a rash on the face followed by an extended rash with a high temperature, increased levels of liver enzymes seen in blood tests and an increase in a type of white blood cell (eosinophilia), enlarged lymph nodes and the involvement of other body organs (Drug Reaction with Eosinophilia and Systemic Symptoms [DRESS]);
- symptoms such as low urine volume, tiredness, nausea, vomiting, confusion and swelling in the legs, ankles or feet, as this may be a sign of sudden decrease of kidney function;
- a skin rash which may form blisters and look like small targets (central dark spots surrounded by a paler area, with a dark ring around the edge) (erythema multiforme);
- a widespread rash with blisters and peeling skin, particularly around the mouth, nose, eyes and genitals (*Stevens-Johnson syndrome*);
- a more severe form of rash causing skin peeling in more than 30% of the body surface (*toxic epidermal necrolysis*);
- signs of serious mental changes or if someone around you notices signs of confusion, somnolence (sleepiness), amnesia (loss of memory), memory impairment (forgetfulness), abnormal behaviour or other neurological signs including involuntary or uncontrolled movements. These could be symptoms of an encephalopathy.

The most frequently reported side effects are nasopharyngitis, somnolence (sleepiness), headache, fatigue and dizziness. At the beginning of the treatment or at dose increase side effects like sleepiness, tiredness and dizziness may be more common. These effects should however decrease over time.

Very common: may affect more than 1 in 10 people

- nasopharyngitis;
- somnolence (sleepiness), headache.

Common: may affect up to 1 in 10 people

- anorexia (loss of appetite);
- depression, hostility or aggression, anxiety, insomnia, nervousness or irritability;
- convulsion, balance disorder (equilibrium disorder), dizziness (sensation of unsteadiness), lethargy (lack of energy and enthusiasm), tremor (involuntary trembling);
- vertigo (sensation of rotation);
- cough:
- abdominal pain, diarrhoea, dyspepsia (indigestion), vomiting, nausea;
- rash:
- asthenia/fatigue (tiredness).

Uncommon: may affect up to 1 in 100 people

- decreased number of blood platelets, decreased number of white blood cells;
- weight decrease, weight increase;
- suicide attempt and suicidal ideation, mental disorder, abnormal behaviour, hallucination, anger, confusion, panic attack, emotional instability/mood swings, agitation;
- amnesia (loss of memory), memory impairment (forgetfulness), abnormal coordination/ataxia (impaired coordinated movements), paraesthesia (tingling), disturbance in attention (loss of concentration);
- diplopia (double vision), vision blurred;
- elevated/abnormal values in a liver function test;
- hair loss, eczema, pruritus;

- muscle weakness, myalgia (muscle pain);
- injury.

Rare: may affect up to 1 in 1000 people

- infection;
- decreased number of all blood cell types;
- severe allergic reactions (DRESS, anaphylactic reaction [severe and important allergic reaction], Quincke's oedema [swelling of the face, lips, tongue and throat]);
- decreased blood sodium concentration;
- suicide, personality disorders (behavioural problems), thinking abnormal (slow thinking, unable to concentrate);
- delirium;
- encephalopathy (see sub-section "Tell your doctor immediately" for a detailed description of symptoms);
- seizures may become worse or happen more often;
- uncontrollable muscle spasms affecting the head, torso and limbs, difficulty in controlling movements, hyperkinesia (hyperactivity);
- change of the heart rhythm (Electrocardiogram);
- pancreatitis;
- liver failure, hepatitis;
- sudden decrease in kidney function;
- skin rash, which may form blisters and looks like small targets (central dark spots surrounded by a paler area, with a dark ring around the edge) (*erythema multiforme*), a widespread rash with blisters and peeling skin, particularly around the mouth, nose, eyes and genitals (*Stevens–Johnson syndrome*), and a more severe form causing skin peeling in more than 30% of the body surface (*toxic epidermal necrolysis*);
- rhabdomyolysis (breakdown of muscle tissue) and associated blood creatine phosphokinase increase. Prevalence is significantly higher in Japanese patients when compared to non-Japanese patients;
- limp or difficulty walking;
- combination of fever, muscle stiffness, unstable blood pressure and heart rate, confusion, low level of consciousness (may be signs of a disorder called neuroleptic malignant syndrome).

 Prevalence is significantly higher in Japanese patients when compared to non-Japanese patients.

Very rare: may affect up to 1 in 10000 people

• repeated unwanted thoughts or sensations or the urge to do something over and over again (Obsessive Compulsive Disorder).

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 national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Levetiracetam Actavis

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the carton, label or blister after EXP. The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Levetiracetam Actavis contains

The active substance is called levetiracetam.

One tablet of Levetiracetam Actavis 250 mg contains 250 mg of levetiracetam.

One tablet of Levetiracetam Actavis 500 mg contains 500 mg of levetiracetam.

One tablet of Levetiracetam Actavis 750 mg contains 750 mg of levetiracetam.

One tablet of Levetiracetam Actavis 1000 mg contains 1000 mg of levetiracetam.

The other ingredients are:

Crospovidon, povidone, silica colloidal anhydrous, magnesium stearate, polyvinyl alcohol–part. hydrolyzed, macrogol 4000, talc, titanium dioxide (E171), colourants*.

* The colourants are:

250 mg tablet: Indigo carmine (E132).

500 mg tablet: Iron oxide yellow (E172), indigo carmine (E132).

750 mg tablet: Indigo carmine (E132), sunset yellow (E110), iron oxide red (E172).

What Levetiracetam Actavis looks like and contents of the pack

Levetiracetam Actavis 250 mg film-coated tablets are oval, light blue, 13.6 x 6.4 mm marked with "L" on one side and "250" on the other side.

Levetiracetam Actavis 500 mg tablets are oval, yellow, 17.1 x 8.1 mm marked with "L" on one side and "500" on the other side.

Levetiracetam Actavis 750 mg tablets are oval, orange, 19.0 x 9.3 mm marked with "L" on one side and "750" on the other side.

Levetiracetam Actavis 1000 mg tablets are oval, white, 19.0 x 10.0 mm marked with "L" on one side and "1000" on the other side.

Pack sizes

Blisters: 20, 30, 50, 60, 100, 120 and 200 film-coated tablets.

Perforated unit dose blisters: 60 x 1 film-coated tablets (only available for 250 mg, 500 mg and

1000 mg tablets).

Tablet containers: 30, 100 and 200 film-coated tablets.

Not all pack sizes may be marketed.

Marketing Authorisation Holder

Actavis Group PTC ehf.

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Manufacturer

Teva Operations Poland Sp. z. o. o.

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Tjoapack Netherlands B.V.

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Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site: https://www.ema.europa.eu