

TMDA/DMC/MRE/F/016
Rev #:02



THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF HEALTH



TANZANIA MEDICINES AND MEDICAL DEVICES AUTHORITY

PUBLIC ASSESSMENT REPORT FOR CLONOTRIL (CLONAZEPAM 0.5 MG) TABLETS

Version number 1.0
21 August, 2023

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1. Introduction

Clonotril 0.5 mg tablets is a light orange, flat, quarter cut tablets on one side and embossed with Remedica's logo on the other side containing the 0.5 mg Clonazepam per tablet. The reference product is Rivotril 0.5 mg tablets of Roche. Clonazepam exhibits pharmacological properties which are common to benzodiazepines and include anticonvulsive, sedative, muscle relaxing and anxiolytic effects. Animal data and electroencephalographic investigations in man have shown that clonazepam rapidly suppresses many types of paroxysmal activity including the spike and wave discharge in absence seizures (petit mal), slow spike wave, generalised spike wave, spikes with temporal or other locations as well as irregular spikes and waves. Clonotril 0.5 mg tablets is approved in Tanzania for use in all ages.

Product details

Registration number	TAN 23 HM 0281
Brand name	Clonotril 0.5 mg
Generic name, strength, and form	Each tablet contains: Clonazepam 0.5 mg
ATC classification	N03AE – Benzodiazepine Derivatives
Distribution category	POM
Country of origin	India
Associated product	N/A
Marketing Authorization Holder	Remedica Ltd, Aharnon Street, Limassol Industrial Estate, 3056 Limassol Cyprus
Local Technical Representative	Stanley Tanzania Ltd, Gerezani Street, Plot No. 70/71, Kariakoo, P. O. Box 40385, Dar es Salaam.

1.1 Assessment procedure

The application for registration of Clonotril 0.5 mg was submitted on 22/02/2021. The product underwent full assessment. Assessment was completed in 4 (four) rounds of evaluation and the product was registered on 01/06/2023.

1.2 Information for users

Visual description of the finished product	Light orange, flat, quarter cut tablets on one side and embossed with Remedica's logo on the other side
Primary packing material	ALU/PVC/PVDC blisters
Secondary packing materials	Carton
Shelf-life and storage condition	18 months, Do not store above 30 °C. Protect from light and moisture

Route of administration	Oral
Therapeutic indications	Clonotril is indicated, primarily as an adjunct or in refractory cases, in most forms of epilepsy especially absence seizures including atypical absence seizures; Lennox-Gastaut syndrome; myoclonic and atonic seizures. For infantile spasms (including West-Syndrome) and tonic-clonic seizure it is only indicated as an adjunct or in refractory cases

2. Labelling and product information

Summary of product characteristics

The SmPC included all the relevant information to ensure correct and safe use of the medicine by healthcare providers. The complete SmPC can be accessed [here](#).

Package insert/leaflet

The package insert is confirmed to be derived from the SmPC and contains sufficient data for the end user. Since the product is POM, the package insert contains full prescribing information as per SmPC.

Container labels

The product label information is presented in English. Details in the secondary pack label include:

Brand name: Clonotril 0.5 mg

Composition: Each tablet contains: Clonazepam 0.5 mg

Pack size: 30 tablets

Manufacturing details: batch number, manufacturing date, expiry date

Storage conditions: Do not store above 30 °C. Protect from light and moisture

Manufacturer address: physical address of release site

Unique identifier:

Special warnings/precautions or instructions for use: <Read the package leaflet before use>

The details of the primary pack include:

Brand name and strength: Not applicable

Manufacturing details: batch number, manufacturing date and expiry date

Name of manufacturer: Remedica Ltd

The content of the primary and secondary labels was aligned to the requirements of the Part V of the Compendium: Guidelines on Format and Content of Product Labels for Medicinal products. The label contains sufficient information for proper identification of the medicine and post marketing follow up of the product.

Mock labels are appended as annex I.

3. Scientific discussion

Quality of Active Pharmaceutical Ingredient

General Information

Clonazepam API is compendia in USP, BP, and Ph.Eur.

Molecular formula: $C_{15}H_{10}ClN_3O_3$

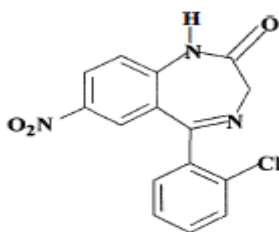
Chemical name:

5-(a-Chlorophenyl)-1,3-dihydro-7-nitro-2H-1,4-benzodiazepin-2-one.

OR

2H-1,4-Benzodiazepin-2-one, 5-(2-chlorophenyl)-1,3-dihydro-7-nitro-

Structure:



General properties

Clonazepam is a slightly yellowish, crystalline powder, which is practically insoluble in water and slightly soluble in methanol and ethanol. The solubility of the API across physiological pH has not been presented, however the API is known to be BCS class low soluble (BCS class II) hence PSD is critical. The API exhibit polymorphism however the manufacturer has demonstrated by several techniques including XRD that a uniform crystalline form is consistently manufactured. The API is non-hygroscopic in nature.

Manufacture

Clonazepam API manufacturer is Centaur Pharmaceuticals Private Limited, Plot No. 75, 76 & 76/1, Chikhli MIDC, Ambemath (W), Dist. Thane 421 501, Maharashtra, India. The manufacturing complies with GMP requirements as evidenced by the GMP certificate issued by the Food and Drugs Administration, Gujarat Estate. Clonazepam API is manufactured by chemical synthesis using conventional techniques. Sufficient controls of quality of materials and in-process checks were employed throughout the manufacturing process.

Specifications

The API specifications were set as per in-house standards and ICHQ3A. The parameters monitored during quality control are: Description, Solubility, Identification by IR, Melting Point, Loss on drying, Residue on Ignition, Limit of Clonazepam related Compound C, Related Compounds, Residual Solvents, Assay, Particle size, Tapped Density. Compliance to these specifications were established via batch analysis data and stability studies.

Stability and container closure system

The re-test period of Clonazepam API is 60 months when packed in polyethylene bags (LDPE) with storage condition 'Store at room temperature'.

Quality of the Finished Pharmaceutical Product

Formulation

Clonotril 0.5 mg tablets is a light orange, flat, quarter cut tablets on one side and embossed with Remedica's logo on the other side

Clonotril 0.5 mg tablets contains the Clonazepam other ingredients listed here after: Microcrystalline Cellulose, Povidone, Sodium Starch Glycolate, Pregelatinised Starch, Silica colloidal anhydrous, Magnesium Stearate, Sunset Yellow E.110, Methylene Chloride. The quantities of all ingredients are confirmed to be in line with the recommendations of Handbook of Pharmaceutical Excipients, 8th Edition in terms of function and quantities.

Manufacture

The finished product manufacturers are Remedica Ltd, Aharnon Street, Limassol Industrial Estate, 3056 Limassol, Cyprus. The compliance of the sites to TMDA GMP standards was confirmed through site inspection on DD/MM/YYYY.

Specifications

The FPP is compendia. The manufacturer controls the quality of the finished product as per USP standards and ICH requirements. The parameters monitored during quality control are: Description, Identification by HPLC and UV, Average weight, Diameter, Thickness, Hardness,

Friability, Disintegration, Uniformity of mass, Subdivision of tablets, Assay, Dissolution, Methylene chloride, Uniformity of dosage units by Content uniformity, Related Substances, Microbiological Examination. Compliance to the standard was established using batch analysis data and stability data.

Stability and container closure system

Stability studies were conducted on 3(three) batches of the finished product stored at 30 ± 2°C & RH: 75 ± 5% RH for 18 months and 40± 2°C & RH: 75% ± 5% RH for 6 months. Based on the stability data presented, the approved shelf-life is 36 months when stored in ALU/PVC/PVDC blisters with storage condition ‘Do not store above 30 °C. Protect from light and moisture’.

Safety and efficacy information

The biowaiver was approved based on additional strength.

Clonotril 0.5 mg tablets fulfilled the criteria for waiving an in-vivo bioequivalence study as per relevant TMDA guidance. Dissolution profiles of Clonotril 0.5 mg tablets was compared to Clonotril 2.0 mg tablets. Less than 85% of the labelled amount of Clonazepam had dissolved in all three media. Therefore, necessitating calculation of similarity factor f2, which was noted to be above 50.

4. Benefit-Risk Assessment and Conclusion

On basis of the data submitted, the current state of knowledge and compliance to Good Manufacturing Practice, the benefit of the product outweighs the risks associated with its use when used in accordance to the summary of product characteristics. Clonotril 0.5 mg tablets is recommended for registration.

5. Post-approval updates

Variation applications

Reference number	Date submitted	Change requested	Recommendation	Granting date

Feedback from pharmacovigilance, post marketing surveillance and enforcement activities

Type of feedback	Impact	Response

Re-registration applications












Application for renewal of registration was submitted on <DDMMYYYY>. The application was finalized in <number> rounds of evaluation. The product was confirmed to still be compliant to the standards of quality, safety and efficacy, hence registration was renewed on <DDMMYYYY>.

PART 5: CHANGE HISTORY

Version number	Date	Description of update	Section(s) Modified	Approval date

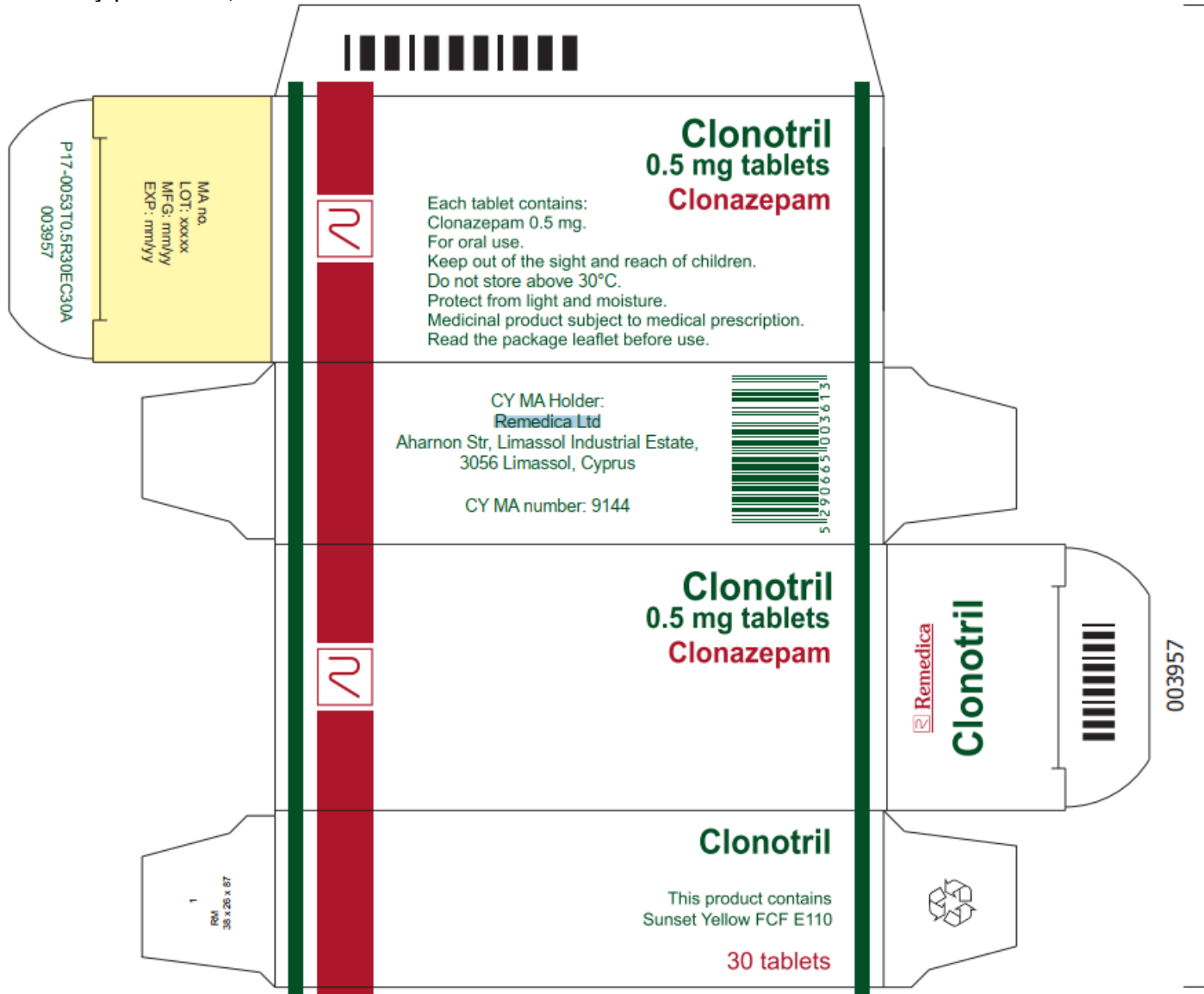
Annex I: Mock up labels;

Primary pack label;

LOT xxxxx	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	M mm/yy E mm/yy
	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	
LOT xxxxx	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	M mm/yy E mm/yy
	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	
LOT xxxxx	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	M mm/yy E mm/yy
	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	
LOT xxxxx	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	M mm/yy E mm/yy
	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	
LOT xxxxx	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	M mm/yy E mm/yy
	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	
LOT xxxxx	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	M mm/yy E mm/yy
	Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus		Clonotril 0,5 mg tablets Clonazepam Remedica Ltd - Cyprus	

P01/0053/0.5FBRC

Secondary pack label;



Effective date: 03/10/2022