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MINISTRY OF HEALTH

TANZANIAMEDICINES ANDMEDICALDEVICES AUTHORITY

PUBLIC ASSESSMENT REPORT FOR DICORATE ER 500 (DIVALPROEX SODIUM 500MG) EXTENDED-RELEASE TABLET

Version number 01

3rd January, 2023

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1. Introduction

Dicorate ER 500 is a generic medicine of Depakote. Dicorate ER 500 is a Antiepileptics medicine belonging to N05AX Psycholeptics, Antipsychotics, Other Antipsychotic group. Dicorate ER 500 exerts is activity by potentiation of the inhibitory action of gamma amino-butyric acid (GABA) through an action on the further synthesis or further metabolism of GABA. Dicorate ER 500 is approved in Tanzania for use in adults, elderly.

1.1 Product details

Registration number	TAN 21 HM 0190		
Brand name	Dicorate ER 500		
Generic name, strength and	Divalproex sodium Equivalent To Valproic Acid 500		
form	mg		
ATC classification	N05AX		
	Psycholeptics, Antipsychotics, Other Antipsychotic		
Distribution category	POM		
Country of origin	India		
Associated product	Dicorate ER 250		
Marketing Authorization Holder	Sun Pharmaceutical Industries Itd, Sun House, Plot No. 201 B/1, Western Express Highway, Goregoan (E), Mumbai, Maharashtra India		
Local Technical Representative	Salama Pharmaceuticals Limited P.O. Box 65235, Dar es Salaam		

1.2 Assessment procedure

The application for registration of Dicorate ER 500 was submitted on 24th March, 2020. The product underwent full assessment. Assessment was completed in two rounds of evaluation. Dicorate ER 500 was registered on 29th march, 2021.

1.3 Information for users

Visual	description	of	the	finished	Grey color, oval, biconvex, coated tablet plain
product			on both sides		

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Primary packing material	Aluminium printed foil blisters		
Secondary packing materials	Carton box		
Shelf-life and storage condition	24 months		
	Store below 30 °C in dry place		
Route of administration	Oral		
Therapeutic indications	Treatment of manic episodes associated with bipolar disorder (manic-depressive illness), a condition with symptoms of excitement or euphoria		

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 <u>here</u>.

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: Dicorate ER 500

Composition: Divalproex sodium equivalent to Valproic acid 500 mg, hydrogenated castor oil, anhydrous Lactose, Hypromellose, Isopropyl alcohol, purified water, Talc, Magnesium stearate, Silicon dioxide, Opadry 03F57509 grey

Pack size: 10's in a blister, 5 blisters in a carton box

Manufacturing details: <batch number, manufacturing date, expiry date>

Storage conditions: Store below 30 °C in dry place

Manufacturer address: Sun Pharmaceutical Industries Ltd, Survey No. 214, Plot No. 20,

G.I.A. Phase-II, Piparia, Silvassa- 396 320, U.T. of Dadra & Nagar Haveli, India

Unique identifier: NA

Special warnings/precautions or instructions for use: <include warnings or IFU if applicable

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The details of the primary pack include:

Brand name and strength: Dicorate ER 500 (Divalproex sodium equivalent to Valproic acid 500 mg)

Manufacturing details: <batch number, manufacturing date, expiry date>

Name of manufacturer: Sun Pharmaceutical Industries 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.

Describe any approved deviation to the requirements and the justification for the deviation.

Mock labels are appended as annex I

3. Scientific discussion

Quality of Active Pharmaceutical Ingredient(s)

Information on quality of the API was submitted in form of Full details

General properties

Divalproex sodium API is compendia in USP/BP.

Molecular formula: C₁₆H₃₁NaO₄)n

Chemical name: Sodium hydrogen bis(2-propylvalerate) oligomer or Pentanoic acid, 2-

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propyl-, sodium salt

Structure:

Sodium valproate is crystalline powder which is hygroscopic and very soluble in water while Valproic acid is a colorless or very slightly yellow, clear liquid, which is slightly viscous and Very slightly soluble in water.

Manufacture

The API manufacturing site, Sun Pharmaceutical Industries Limited A-7/A-8, M.I.D.C., Industrial Area, Ahmednagar – 414 111, Maharashtra, India was noted to comply with WHO GMP requirements as evidenced by the GMP certificate issued by <state the issuing authority>. Divalproex sodium 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 USP, in-house standards and ICHQ3A. The parameters monitored during quality control are: appearance, solubility, identification, assay, water content, chloride content, sulphated ash, residual solvents, related substances. Compliance to these specifications were established via batch analysis data and stability studies.

Stability and container closure system

The re-test period of Divalproex sodium API is 60 months when packed in low density polyethylene bags (inner transparent and outer black bag) placed in fiber board drum under nitrogen atmosphere and stored at 25°C/60% RH.

Quality of the Finished Pharmaceutical Product

Formulation

Dicorate ER 500 is a grey colour, oval, biconvex coated tablet plain on both side packed in Aluminium printed foil blister. Describe the diluent, measuring devices or any delivery device if applicable. Dicorate ER 500 contains Divalproex sodium and other ingredients listed here after hydrogenated castor oil, anhydrous Lactose, Hypromellose, Isopropyl alcohol, purified water, Talc, Magnesium stearate, Silicon dioxide, Opadry 03F57509 grey. The quantities of all ingredients are confirmed to be in line with the recommendations of Handbook of Pharmaceutical Excipients, Edition <number> in terms of function and quantities. Ingredient, anhydrous Lactose is of safety concern therefore appropriate warnings were included in the product label.

Manufacture

The finished product was manufactured at Sun Pharmaceuticals Industries Ltd., Survey No.214, Plot No. 20, G.I.A., Phase II, Piparia, Silvassa – 396230, U.T. of Dadra & Nagar Haveli, India. The compliance of the site to TMDA GMP standards was confirmed through site inspection on 2017.

Specifications

The FPP is non-compendia. The manufacturer controls the quality of the finished product as per in-house and ICHQ3B requirements. The parameters monitored during quality control are: Description, Identification (by HPLC), Average Weight, Dissolution (By HPLC), Uniformity of Dosage Units (By weight variation), Assay (By HPLC), Related Substances (By GC) and Microbial Limit Test. Compliance to the standard was established using batch analysis data and stability data.

Stability and container closure system

Stability studies were conducted on three batches of the finished product stored at 30° C \pm 2° C/ $60\% \pm 5\%$ RH for 24 months and 40° C \pm 2° C/75% \pm 5%RH for 6 months. Based on the stability data presented, the approved shelf-life is 24 months when stored in Aluminium printed foil blisters at store below 30° C in dry place.

Safety and efficacy information

Safety and efficacy of Dicorate ER 500 was established through bioequivalence trial. BE trial report number PKD_14_373 was submitted.

In case of BE:

Study title	a randomized, open label, two treatment, two period, two			
	sequence, single dose, crossover, bioequivalence study			
	of divalproex sodium 500 mg extended release tablets			
	manufactured by sun pharmaceutical industries limited,			
	india and depakote® er (divalproex sodium) 500 mg			
	extended release tablets manufactured by abbott			
	laboratorios do brasil Itda, in 40 healthy human adult			
	subjects under fed conditions.			
Study design	randomized, open label, two treatment, two periods, tw			
	sequences, single dose, and crossover bioequivalence			
	study with 10 days washout between each dosing			
	conducted under fed condition.			
Study site	Sun Pharmaceutical Industries Ltd.			
	Tandalja, Vadodara – 390 020			
	India			

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Study dates	Activities	Dates		
	Period I (dosing)	07/04/2015		
	Period II (dosing)	17/04/2015		
	Analysis (start date)	14/04/2015		
	Analysis (completion date)	22/04/2015		
Primary objective	To compare the bioequiva	lence and characterize the		
	pharmacokinetic profile of	the sponsor's divalproex		
	sodium 500 mg extended re	elease tablets manufactured		
	by sun pharmaceutical indus	stries limited, india relative to		
	that of reference product	"depakote® er (divalproex		
	sodium) 500 mg extended re	elease tablets" manufactured		
		orasil Itda in healthy, adult,		
	human male subjects under fedconditions and to assess			
	the bioequivalence			
Secondary objective	To monitor the safety of the subjects			
Number of participants	40 healthy male			
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Monitored parameters	AUC, Cmax, Tmax, T1/2, Kel	I		
Investigational medicinal	Test Product	Reference product		
products	Strength: 500 mg	Strength: 500 mg		
	Batch number: SKM0986	Batch number: 39330QA		
	Expiry date: 05/2015	Expiry date: 11/2015		
Analytical method	UHPLC/MS/MS			
Statistical method	SAS (release 9.2 for Windows			

Efficacy results are summarized as follows:

Parameter	Test	Referenc e	% Ratio of geometric means	90 % Confidence interval	DF	CV (%)
AUC0-t	1378.32	1254.41	109.88	104.44 –	38	13.16
(ng.h/mL)				115.60		
AUC0-inf						
(units)						
Cmax	39.89	36.15	110.33	104.80 –	38	13.34
(ng/mL)				116.15		

The acceptance limits of 80-125% are met by the AUC and Cmax values. Furthermore, the safety profile of the test product is similar to that of reference product. Therefore, Dicorate ER 500 is equivalent and interchangeable with < depakote® er (divalproex sodium) 500 mg extended release tablets under acceptable in vivo experimental conditions.

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. Dicorate ER 500 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 label

