

Malandrucchio

SEP 29 1999

DIVISION OF NEUROPHARMACOLOGICAL DRUG PRODUCTS, HFD-120
REVIEW OF CHEMISTRY, MANUFACTURING, AND CONTROLS

NDA 21-035

CHEM. REVIEW # 2

REVIEW DATE 28-SEP-99

SUBMISSION TYPE	DOCUMENT DATE	CDER DATE	ASSIGNED DATE
AMENDMENT .N(BC)	15-JUN-99	16-JUN-99	17-JUN-99
AMENDMENT .N(BC)	06-JUL-99	07-JUL-99	07-JUL-99
AMENDMENT .N(BC)	30-AUG-99	31-AUG-99	01-SEP-99
AMENDMENT .N(BC)	24-SEP-99	27-SEP-99	28-SEP-99

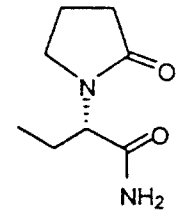
NAME AND ADDRESS OF APPLICANT ucb Pharma, Inc.
1950 Lake Park Drive
Smyrna, GA 30080

DRUG PRODUCT NAME
Proprietary: Kepra
Nonproprietary/USAN[1999]: Levetiracetam (name adopted by USAN on July 28, 1999)
Code Name/Number: ucb L059, ucb 22059
Chem. Type/Ther. Class: 1S

PHARMACOLOGICAL CATEGORY/INDICATION Anticonvulsants
DOSAGE FORM Tablets
STRENGTHS 250 mg, 500 mg, and 750 mg
ROUTE OF ADMINISTRATION Oral
DISPENSED XXX RX OTC
SPECIAL PRODUCTS Yes XXX NO

CHEMICAL NAME, STRUCTURAL FORMULA, MOLECULAR FORMULA

-)-(S)-α-ethyl-2-oxo-1-pyrrolidineacetamide, and
l-pyrrolidineacetamide, α-ethyl-2-oxo-, (αS)-o



C₈H₁₄N₂O₂
Mol. Wt. 170.21
CAS Registry #: 102767-28-2

SUPPORTING DOCUMENTS: IND [redacted] DMF [redacted]
RELATED DOCUMENTS: None

CONSULTS: The proposed trademark "Kepra" was found acceptable by the CDER Labeling and Nomenclature Committee. However, the sponsor has changed the trademark to "Kepra" due to problems in Europe. The CDER Labeling and Nomenclature Committee is reviewing the new name. An inspection is scheduled for September 27-October 1, 1999. The [redacted] is being prepared.

REMARKS/COMMENTS: The stability data supports a tentative 24-month expiration date for the bottles and a tentative 12 month expiration date for the blisters. The sponsor has addressed the questions we submitted in a letter date [18-JUN-99]. The final drug substance and drug product specification [redacted]

CONCLUSIONS & RECOMMENDATIONS: The CMC information is approvable pending a satisfactory EER report. The three remaining issues: 1) acceptable EER report, 2) acceptable finding by the CDER Labeling and Nomenclature Committee for "Kepra", and 3) commitment to a 3 month bulk stability expiration with stability testing [redacted]

cc: Orig. NDA 21-035
HFD-120
HFD-120/TOliver
HFD-120/PM/MMalandrucchio
HFD-120/MGuzewska
R/D init by: ME [redacted]

/S/
Thomas F. Oliver, Ph.D., Chemist

Filename: n21035

/S/ 9.29.99

DIVISION OF NEUROPHARMACOLOGICAL DRUG PRODUCTS, HFD-120
REVIEW OF CHEMISTRY, MANUFACTURING, AND CONTROLS

NOV 17 1999

NDA 21-035

CHEM. REVIEW # 3

REVIEW DATE 17-NOV-99

SUBMISSION TYPE
AMENDMENT .N(BC)

DOCUMENT DATE
05-OCT-99

CDER DATE
06-OCT-99

ASSIGNED DATE
06-OCT-99

NAME AND ADDRESS OF APPLICANT

ucb Pharma, Inc.
1950 Lake Park Drive
Smyrna, GA 30080

DRUG PRODUCT NAME

Proprietary:
Nonproprietary/USAN[1999]:
Code Name/Number:
Chem. Type/Ther. Class:

Keppra
Levetiracetam (name adopted by USAN on July 28, 1999)
ucb L059, ucb 22059
1S

PHARMACOLOGICAL CATEGORY//INDICATION

Anticonvulsants

DOSAGE FORM

Tablets

STRENGTHS

250 mg, 500 mg, and 750 mg

ROUTE OF ADMINISTRATION

Oral

DISPENSED

XXX RX

 OTC

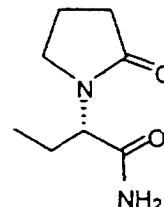
SPECIAL PRODUCTS

 Yes

XXX NO

CHEMICAL NAME, STRUCTURAL FORMULA, MOLECULAR FORMULA

(-)-(S)- α -ethyl-2-oxo-1-pyrrolidineacetamide, and
1-pyrrolidineacetamide, α -ethyl-2-oxo-, (α S)-



$C_{12}H_{14}N_2O_2$

Mol. Wt. 170.21

CAS Registry #: 102767-28-2

SUPPORTING DOCUMENTS: IND DMF

RELATED DOCUMENTS: None

CONSULTS: The new proposed trademark "Keppra" was found acceptable by OPDRA (recommendation is attached at the end of review) [Note: The original proposed name "Kepra" was approved by the CDER's Labeling and Nomenclature Committee on 09-APR-99; sponsor switched to Keppra due to problems in Europe]. The EER was found acceptable. The [redacted] is being prepared.

REMARKS/COMMENTS: The stability data supports a tentative 24-month expiration date for the bottles and a tentative 12 month expiration date for the blisters. The sponsor has committed to the 3-month bulk stability (fax 15-NOV-99) expiration with stability testing on the first commercial batch of bulk drug product (each strength).

CONCLUSIONS & RECOMMENDATIONS: Recommend APPROVAL. The HOW SUPPLIED section should be revised to read: 250 mg tablets are blue and the 500 mg tablets are yellow.

cc: Orig. NDA 21-035

HFD-120

HFD-120/TOliver

HFD-120/PM/MMalandrucco

FD-120/MGuzewska

VD Init by: MEG

1S/ 11.17.99

1S/
Thomas F. Oliver, Ph.D., Chemist

Filename: n21035.03