

InphA GmbH · Emil-Sommer-Str. 7 · 28329 Bremen · Germany

Ministry of Health, Labour and Social Affairs of Georgia **LEPL State Regulation Agency for Medical Activities** Attn: Gia Tvalavadze 144, Ak. Tsereteli Ave. Tbilisi 0119 Georgia

Your reference Seal No. 0000945 Our reference 160832

Contact /Phone Dr. Andreas Klamka +49-4 21-43 61-120

Bremen, 08.12.2016

Test Report

Lab code

160832

Sample code

Seal No. 0000921

Date of receipt

13.10.2016

Start date of testing

24.10.2016

Product name

CAPTOPRIL

Dosage form

tablets

Active ingredient

captopril

Strength

25 mg/tablet

Package size

30 tablets/package

Number of packages

Type of

primary container

4 packages

blister

Type of

secondary container

card board box

Storage conditions

Batch number

1415123

Expiry date

12/2018

Manufacturing date

Manufacturer

GAMA LTD, Georgia

InphA GmbH

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Amtsaericht Bremen HRB 16583

Institutsleiter und Geschäftsführer:

Dr. Konrad Horn

Aufsichtsratsvorsitzender: Gerhard Zeitler





Appearance				
	Method	visual		
	Specification:	no information available		
	Result:	white, round, plain tablets with one-sided imprint of the company logo		
	Conclusion:	not applicable		
Dissolution				
	Method:	USP Captopril Tablets		
	Specification:	≥ 80 % (Q) of the labeled amount		
	Result:	S ₁ (n = 6):	tablet 1 = 123.6 % tablet 2 = 112.4 % tablet 3 = 127.2 % tablet 4 = 124.6 % tablet 5 = 125.2 % tablet 6 = 133.4 %	
	Conclusion:	complies		
Uniformity of dosage units				
	Method:	USP <905>, MV		
	Specification:	AV (L1) ≤ 15		
	Result:	AV (L1) = 12.9		
	Conclusion:	complies		
Related substances				
	Method:	USP Captopril Tablets		
	Specification:	according BP Captopril limit of captopril disulfic		
	Result:	captopril disulfide	≥ 3 %	
	Conclusion:	does not comply		
Identification				
captopril	Method:	Assay according to US	Assay according to USP Captopril Tablets	
	Specification:	retention time and PDA spectra conform to reference standard		
			A spectra conform to ref-	
	Result:	retention time and PD/ erence standard	4 Spectra comonn to rei-	



Assay

captopril

Method:

USP Captopril Tablets

Specification:

25 mg/tablet

90 - 110 % of the labeled amount

Result:

23.2 mg/tablet,

RSD = 0.68 % (n = 3);

92.9 % of the labeled amount

Conclusion:

complies

Conclusion

The test for related substances (limit of captopril disulfide) does not comply. The test was performed according to the method described in the USP monograph *Captopril Tablets* by using a BP reference standard. The USP monograph provides a formula for calculating the content of captopril disulfide. Due to a missing content of the BP reference substance, we decided to use the method of comparing the peak areas of captopril disulfide (test solution vs. reference solution) as described in the BP monograph.

Regarding the results of the dissolution testing, the USP method with its very unspecific wavelength of 205 nm used for the UV-detection, might lead to unusual high results.

Explanatory Note

It has to be noted that the submitted sample is not labeled as to comply with USP. Therefore, the methods and specifications of the USP *Captopril Tablets* monograph might not be applicable for this product.

Dr. Konrad Horn Head of Institute and Managing Director Dr. Andreas Klamka Lab Manager