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1 2	Analytical Method for Estimation of Losartan by using UV -Spectrophotometer
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6	

#### 7 Abstract

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- <sup>8</sup> A simple, accurate, and economical least time consuming method for losartan method has
- <sup>9</sup> been developed using Uv spectrophotometer. The assay is based on the UV absorbance
- <sup>10</sup> maxima at about wavelength of 234nm using distilled water as solvent. Six sample of drug
- <sup>11</sup> were dissolved in distilled water to produce solutions containing different brands of losartan.
- <sup>12</sup> The absorbance of these six drugs were measured at 234 nm against the solvent blank and the
- <sup>13</sup> assay were calculated by using the absorbance of active. This method can be used for the
- <sup>14</sup> quality control QC quantitation and analysis of losartan in active and tablet formulations.

16 Index terms—assay, losartan, UV pectrophotometer.

But there is no single analytical method have been reported for determination of losartan as simple and 20 economical like this method. Because I have used simple water for analysis of these all brandsand in very less 21 22 time period I have analysed the drugs we have done this types of assay for other drugs which will be useful 23 for small scale laboratory and where expensive Author: Faculty of Pharmacy, Jinnah University for Women, 24 Karachi, Pakistan. e-mails: safila117@yahoo.com, safila117@gmail.com instrument not available we can easily find out these drugs in a very short period of time. The serial number as an identification of purchased brands 25 are given in Table 1. Using 20 tablets of six different brand of losartan from the marketed sample were weighed 26 and average mean were calculated. By calculating the average weighed powder of each brand equivalent to 10 mg 27 of losartan was transferred in a volumetric flask containing small water then solution was sonicated for about 5 28 min and than make up volume up to 100 ml with water. Same procedure was repeat for all brands for preparation 29 of solutions. 30

# <sup>31</sup> 1 e) Procedure

After preparation of standard and sample solutions of different brands, strength of all solutions 100 ppm in 100 ml. By using 234 nm wavelength absorbance noted and calculate % assay of each drug.

### 34 **2** III.

# **35 3 Results and Discussions**

<sup>36</sup> Pharmaceutical assay was carried out by using spectrophotometer on six brands of losartan tablets.

# 37 4 Conclusion

38 A simple, rapid, and economical UV method has been established for determination of losartan alone or in

their formulations. This method has several advantages, including simple sample preparation and rapid analysis.It is suitable for analysis of antihypertensive agent losartan in their formulations in a single run, in contrast

<sup>In literature, several methods have been described for analysis of Losartan potassium in API and formulations.
Various methods are HPLC based [1,2], (CE) capillary electrophoresis [3], voltametric determination [4] and some are spectrophotometric ??5][6][7].</sup> 

 $^{41}\,$  with previous published methods. This makes the method suitable for routine analysis in QC quality-control laboratories.  $^1$ 



Figure 1:

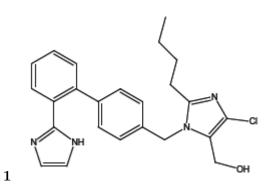


Figure 2: Figure 1 :

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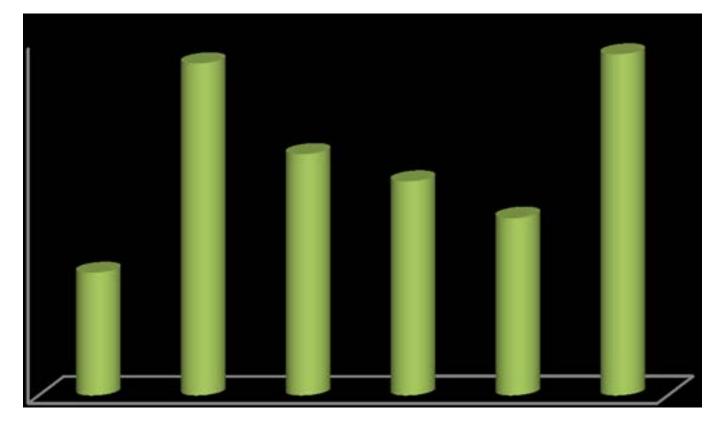


Figure 3:

Figure 4: Table - 1

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Brand Name Code Av	erage wt o	of tablet mg	Wt for 100	Absorbance at 234 nm	% assay
			ppm		
AZA	LSR1	0.16	0.016	2.627	101.0385
cozaar	LSR2	0.156	0.015	2.673	102.8077
losaan	LSR3	0.153	0.015	2.653	102.0385
zostat	LSR4	0.18	0.018	2.647	101.8077
losark	LSR5	0.234	0.023	2.639	101.5
eziday	LSR6	0.175	0.017	2.675	102.8846

Figure 5: Table 1 :

#### 4 CONCLUSION

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