

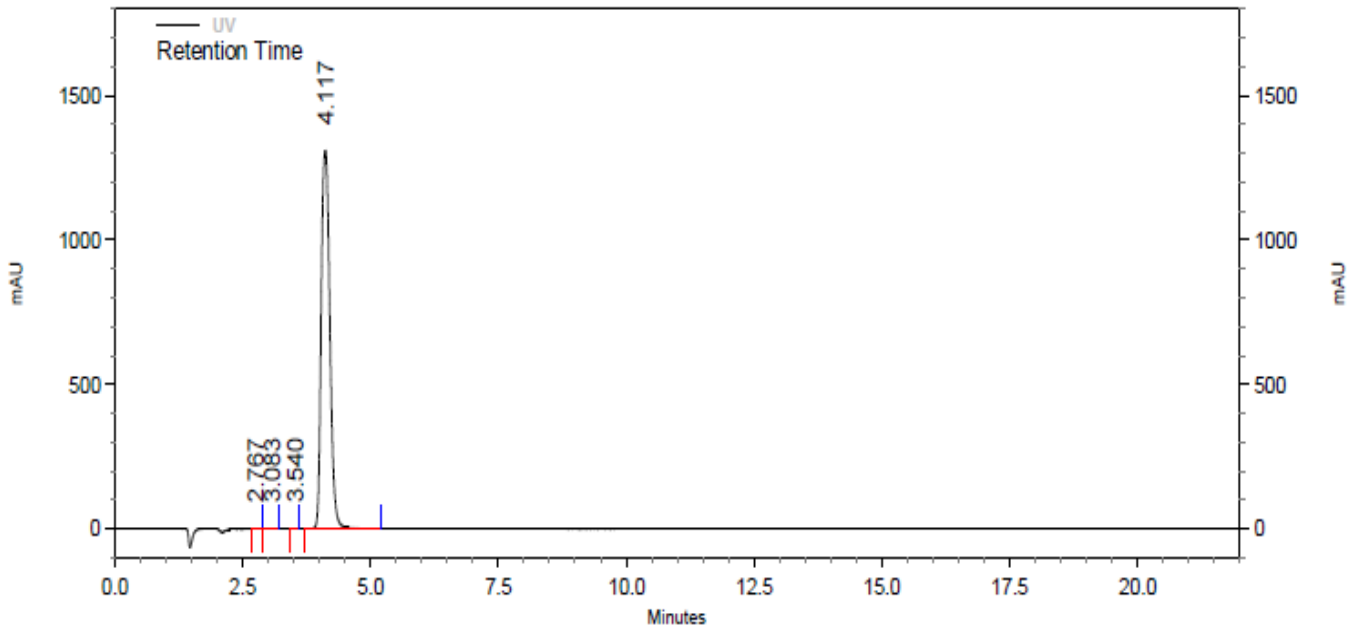
Certificate of Analysis

Name of Product : **N-ACETYL-4-(4-HYDROXY PHENYL) PIPERAZINE**
 CAS No. : 67914-60-7
 Chemical Formula : $C_{12}H_{16}N_2O_2$
 Molecular Weight : 220.27
 Batch No. : **ACP / AHPP**
 Quantity : **SAMPLE**
 Manufacturing Date : September-2019
 Retest Date : August-2020

Sr. No.	Test	Specification	Result
1	Description	Off White to White Powder	Complies
2	Loss on Desiccation	NMT 0.5%	0.36%
3	Melting Point	180 °C to 185 °C	184 °C
4	Identification	By HPLC : The retention time of the main peak in the sample under purity by HPLC is concordant with that of standard. By IR : The sample corresponds to that of the standard soluble in Dimethyl formamide.	Complies
5	Colour of Solution (As % Transmittance at 400nm)	NLT 74%	92.0%
6	Related Substances (Total Impurities by TLC)	NMT 2.00%	0.024%
7	Assay by Titration	98.0% to 101.0%	99.85%
8	Related Substance by HPLC N-ACETYL-4-(4-HYDROXY PHENYL) PIPERAZINE	NLT 99.00%	99.976%
9	Para Amino Phenol	NMT 0.06%	0.023%
10	Impurity at RRT 4.49	NMT 0.20%	Not detected
11	Impurity at RRT 4.57	NMT 0.20%	Not detected
12	Any Individual unknown Impurity	NMT 0.10%	0.011%

Date : 30.09.2019
Place : Ankleshwar

Sample ID : AHPP #56
 Method Name : C:\EZChrom Elite\Methods\AHPP.met
 Data File : D:\data\2019\Aashray\30.09.2019 AHPP #56 001.dat
 Run Time : 09/30/2019 10:48:07 PM
 Vial : 200



UV Results

Name	Retention Time	Area	Area Percent
	2.767	5429	0.009
	3.083	6831	0.011
	3.540	2653	0.004
	4.117	61403195	99.976
Totals		61418108	100.000