International Journal of PharmTech Research
CODEN (USA): IJPRIF, ISSN: 0974-4304, ISSN(Online): 2455-9563
Vol.9, No.11, pp 317-323, 2016

# Colorimetric determination of amitriptyline hydrochloride in bulk and some dosage forms.

**Aymen Abdul RasoolJawad**

**Pharmaceutical Chemistry Department, Faculty of Pharmacy, Kufa University Najaf, Iraq**

**Abstract:**Colorimetric method was established to determination of amitriptyline hydrochloride (AMT-HCl) in bulk and pharmaceutical dosage forms. The method depend on the simple chromogenic oxidative coupling reaction between AMT-HCl and 1,2-diamino benzene (DAB) reagent using sodium periodate as oxidizing agent in acidic media. Beers law is obeyed in the range (2-32) ppm at wavelength 464 nm with molar absorptivity $1.36\times10^{4}$ $L.mol^{-1}.cm^{-1}$. Optimum conditions for the chromogenic reaction was studied. The method had high sensitivity, good selectivity and reproducibility. This method was applied to determine AMT-HCl in pure and some dosage forms.

**Keywords** : Colorimetric**,** chromogenic oxidative coupling, amitriptylineHCl, 1,2-diamino benzene.

**Aymen Abdul RasoolJawad** /International Journal of PharmTech Research**,** 2016,9(11): 317-323.

*****