Application Note: Fluoxetine Hydrochloride

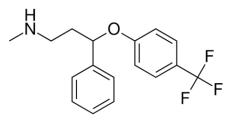


Fluoxetine hydrochloride is an antidepressant belonging to a class of drugs known as selective serotonin reuptake inhibitors. It was notably marketed as Prozac.

Fluoxetine is also effective at treating obsessive compulsive disorder and bulimia. It blocks the serotonin reuptake transporter in the presynaptic terminal which results in increased levels of serotonin in certain areas of the brain.

Fluoxetine is favourable in comparison with older antidepressants as it is a selective inhibitor for serotonin, has weak affinity for noradrenaline receptors and no affinity for dopamine receptors, giving it a far more desirable adverse effect profile.

This application shows the use of a Horizon C8 column for the analysis of fluoxetine hydrochloride in accordance with the official Fluoxetine Hydrochloride USP monograph.





Mobile Phase: 60:30:10 Buffer/THF / MeOH

(TEA in water (1:98), pH 6.0)

Flow rate: 1.0 ml/min Wavelength: 225nm Temperature: 20°C

Fluoxetine hydrochloride