

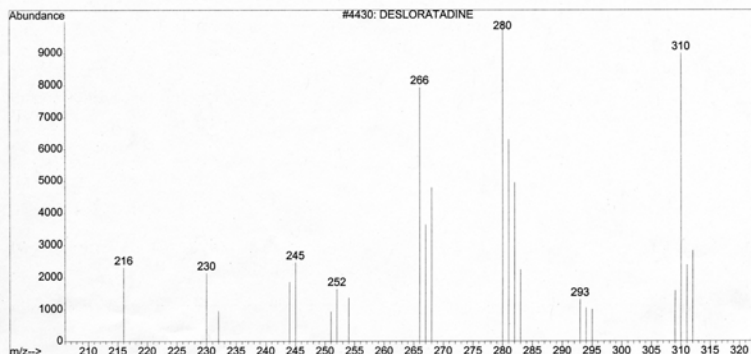
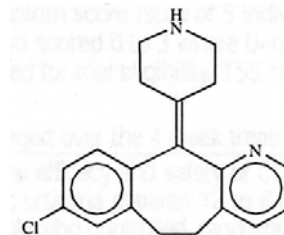
Desloratadine or Clarinex®

Submitted by Dan Anderson - Los Angeles County Dept. of Coroner

New orally administered antihistamine that is generally known as the main metabolite of loratadine or Claratin®. Desloratadine is a long-acting tricyclic histamine antagonist that is prescribed as a light blue, round, film coated tablet with 5 mg of drug.

Chemical Properties

- 8-chloro-6,11-dihydro-11-(4-piperdinylidene)-5H-benzo[5,6]cyclohepta[1,2-b]pyridine
- C₁₉H₁₉ClN₂
- Molecular weight 310.8
- Desloratadine is a basic drug that can be extracted with an n-butylchloride liquid/liquid extraction and can be detected after an acid back extraction.
- Detection of Desloratadine is possible on either a GC/NPD or GC/MS.



Ions: 280, 310, 266, 245, & 230 m/z

- Relative retention time of Desloratadine (1.55/Carbinoxamine) to other commonly encountered basic drugs are as follows:
Oxycodone, Norpropoxyphene, Paroxetine, **DESLORATADINE**, Fentanyl, Olanzapine, Zolpidem

Pharmacology

- Maximum plasma concentrations (T_{max}): 3 hours post dose
- Half-life: 27 hours
- Extensively metabolized to 3-hydroxydesloratadine (active metabolite), which is subsequently glucuronidated.