Clozapine

Antipsychotics
Leponex®
Clozapine: $\mu g/l \ge 0.0031 = \mu mol/l$ $\mu mol/l \ge 327 = \mu g/l$ Norclozapine: $\mu g/l \ge 0.0032 = \mu mol/l$ $\mu mol/l \ge 313 = \mu g/l$
Individual dose adaptation, verification of compliance, side effects, suspicion of toxicity
95% (α_1 -acid glycoprotein)
6 - 26 h
1.6 l/kg
CYP1A2 (Norclozapine), CYP3A4 (Clozapine-N- oxide), CYP2D6
Norclozapine (partial activity) (is determined)
Not yet found
Cigarette smoking decreases clozapine serum levels
Hepatic >30% Renal > 50%
350 – 810 μg/l (1.07 – 2.48 μmol/l) (Clozapine)
> 1000 µg/l (3.1 µmol/l) (Clozapine)
3-5 days
Before next dose at steady state
Serum or plasma

- Stability:	At 4°C several days in serum
Analytics	
 Position(s) in the analysis list/Method: 	8636.02 HPLC/GC 8636.03 LC-MS/GC-MS
Remarks	Plasma levels are 10% higher (clozapine) and 16% higher (norclozapine) than serum levels.
References	 Arzneimittelkompendium Schweiz, 2005 R.C. Baselt, Disposition of Toxic Drugs and Chemicals in Man, 6th edition, 2002, Biomedical Publikations, Foster City, USA Kaladjian A et al, Therap Drug Monit 21 (1999) 327 Mitchell P, Br J Clin Pharmacol 52 (2001) 45S Baumann P et al., Pharmacopsychiatry 37 (2004) 243