

**Please note that the guidelines contained in this table relate to adults**

<b>Antiepileptic drug</b>	<b>Ideal sampling time</b>	<b>Time to steady-state</b>	<b>Reference range</b>
Carbamazepine	Immediately before an oral dose	5 days <sup>1</sup>	up to 50 µmol/L
Carbamazepine epoxide (metabolite)	Immediately before an oral dose	5 days <sup>1</sup>	up to 9 µmol/L
Clobazam + desmethyl clobazam (metabolite)	Immediately before an oral dose	10 days	up to 670 nmol/L up to 7000 nmol/L
Clonazepam (FO)	Immediately before an oral dose	17 days	80 - 270 nmol/L
Ethosuximide	Immediately before an oral dose	12 days	up to 700 µmol/L
Felbamate	Immediately before an oral dose	6 days	210 - 460 µmol/L
Gabapentin	Immediately before an oral dose	2 days	12 - 120 µmol/L
Lamotrigine	Immediately before an oral dose	13 days	4 - 60 µmol/L
Levetiracetam	Immediately before an oral dose	2 days	45 - 118 µmol/L
Oxcarbazepine + 10-hydroxycarbazepine (metabolite)	Immediately before an oral dose	2 days	50 - 110 µmol/L
Phenobarbitone	Immediately before an oral dose	20 days	up to 170 µmol/L
Phenytoin	Immediately before an oral dose	14 days	up to 80 µmol/L
Pregabalin	Immediately before an oral dose	2 days	not established
Primidone	Immediately before an oral dose	5 days	up to 60 µmol/L
Tiagabine	Immediately before an oral dose	1 day	200 - 1100 nmol/L
Topiramate	Immediately before an oral dose	5 days	6 - 74 µmol/L
Valproic Acid	Immediately before an oral dose	3 days	up to 700 µmol/L
Vigabatrin	Immediately before an oral dose	2 days	6 - 278 µmol/L
Zonisamide	Immediately before an oral dose	12 days	50 - 190 µmol/L

<sup>1</sup> If carbamazepine is being introduced for the first time, steady state is only achieved after 20 days of treatment due to autoinduction.

- Carbamazepine, gabapentin levetiracetam, tiagabine, valproic acid and vigabatrin exhibit significant diurnal variation, sampling time in relation to dose is critical
- During therapy with primidone, monitoring of only the active metabolite phenobarbitone is recommended in most circumstances

All tests are available for **blood and saliva**. All antiepileptic drug assays are available as **total** plasma/serum concentrations or as **free** non-protein-bound concentrations.