



TDM

Therapeutic Drugs Monitoring

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The LGC AXIO Therapeutic Drugs Monitoring (TDM) proficiency testing scheme provides independent performance assessment for the routine quantification of a wide range of anti-epileptic and other therapeutic drugs.

TDM is a measurement of specific drug concentration levels at timed intervals in patients, usually through blood/serum samples, and is necessary where control of drug concentrations is required to achieve optimum treatment for the patient, or where there is a narrow range between the therapeutic and toxic levels.

The operation of the LGC AXIO TDM scheme is supported by an Advisory Group consisting of members of the professional bodies, scheme participants, and others experienced in the field. The scheme reports on the performance of U.K. participants (who have clinical responsibilities) to the National Quality Assurance Advisory Panels for Chemical Pathology.

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Test Material*	Analyte*
Therapeutic drug mixture (lyophilised human serum)	Carbamazepine; CBZ-epoxide; Carbamazepine+CBZ-epoxide; Clonazepam; Lamotrigine; Phenytoin; Ethosuximide; Phenobarbitone; Primidone; Valproate; Caffeine; Digoxin; Lithium; Theophylline; Methotrexate; TD-Amikacin; TD-Gentamicin; Clobazam, Norclobazam. TD-Tobramycin; TD-Vancomycin.
Anti-epileptic drugs (lyophilised human serum)	Bivaracetam, Felbamate, Gabapentin, Lacosamide, Levetiracetam, OH-oxcarbazepine, Pregabalin, Perampamil, Retigabine (Ezogabine), Rufinamide, Tiagabine, Topiramate, Vigabatrin, Zonisamide.
Cardiac drugs (lyophilised human serum)	Amiodarone, Desethylamiodarone, Flecainide.
Analgesic mixture (lyophilised human serum)	Diclofenac, Ibuprofen, Tramadol.
Substance abuse & treatment (lyophilised human serum)	Buprenorphine, EDDP, Methadone, Norbuprenorphine.
Psychoactive drugs (lyophilised human serum, new born calf serum)	Amisulpride, Amitriptyline/Nortriptyline, Aripiprazole/Dehydroaripiprazole, Citalopram/Norcitalopram, Clomipramine/Norclomipramine, Clozapine/Norclozapine, Doxepin/Nordoxepin, Dothiepin/Northiaden, Duloxetine, Escitalopram, Fluphenazine, Fluvoxamine, Haloperidol, Imipramine/Desipramine, Fluoxetine/Norfluoxetine, Maprotiline/Normaprotiline, Mianserin, Mirtazapine/Normirtazapine, Olanzapine, Paroxetine, Perphenazine, Quetiapine/Norquetiapine, Risperidone/HO-risperidone, Sertraline/ Nosertraline, Sulpiride, Thioridazine, Trazodone, Trimipramine/Nortrimipramine, Venlafaxine/ Norvenlafaxine, Ziprasidone, Zuclopendithoxol. Brexpiprazole, Lurasidone, Sertindole, Iloperidone.
Psychostimulants (lyophilised human serum)	Atomoxetine, Methylphenidate. Ritalinic Acid.
Non-smoking compliance (lyophilised human serum)	Cotinine, Nicotine.
Antibiotics and Antifungals (liquid human serum)	Amikacin, Gentamicin, Teicoplanin, Tobramycin, Vancomycin, Antibiotics, Antifungals.
Anti-hypertensive drugs (urine)	Drug identification.

* The full range and availability of test materials and analytes is determined on an annual basis and may be added or removed. For accredited and non-accredited status please see current application form/scheme description.

