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SECTION 22
THERAPEUTIC
DRUGS

Therapeutic Drug Controls

Therapeutic drug controls are crucial in diagnostics for ensuring the accuracy and reliability of tests that measure drug levels in the bloodstream, which is essential for optimising pharmacotherapy and ensuring patient safety. These controls consist of standardised samples with known concentrations of specific therapeutic drugs, used to validate the performance of assays such as immunoassays and chromatography. By incorporating these controls, laboratories can monitor assay precision and detect any discrepancies, thereby minimising the risk of subtherapeutic or toxic drug levels that could lead to ineffective treatment or adverse reactions.

Furthermore, the role of therapeutic drug controls extends to maintaining quality assurance in laboratory practices, ensuring consistent and reproducible results across different testing environments. Reliable therapeutic drug monitoring is vital for guiding clinical decisions, adjusting medication dosages, and preventing drug interactions. Regular use of these controls helps identify potential issues with reagents or equipment, ultimately supporting effective patient management and improving health outcomes. Overall, therapeutic drug controls significantly enhance the quality of healthcare by providing accurate diagnostic information that informs treatment strategies and optimises patient care.

The Fortress Therapeutic Drug Controls are manufactured from 100% human serum to negate matrix effects and are lyophilised for enhanced stability.



Lyophilised



Liquid Frozen



Liquid Stable



100% Human Serum



Assayed Target Values Provided

Therapeutic Drug Monitoring



- The Fortress Therapeutic Drug Monitoring controls are intended for checking accuracy and precision.
- The controls are presented as multi analyte, lyophilised controls stable up to expiry at 2-8 °C.
- Reconstituted stability of 14 days when stored at 2-8 °C or 60 days at -20 °C.
- 100% Human serum designed for matrix conformity.

Analytes

Amikacin Caffeine Carbamazepine Cyclosporine	Digoxin Ethosuxamide Gentamicin Lithium	Methotrexate Paracetamol Phenobarbitone Phenytoin	Primidone Salicylate Theophylline Tobramycin	Valproic Acid Vancomycin
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Description	Size	Cat No.	Type
Therapeutic Drug Monitoring (Level 1)	5 x 5 ml	BXC0781A	Lyo.
Therapeutic Drug Monitoring (Level 2)	5 x 5 ml	BXC0782A	Lyo.
Therapeutic Drug Monitoring (Level 3)	5 x 5 ml	BXC0783A	Lyo.