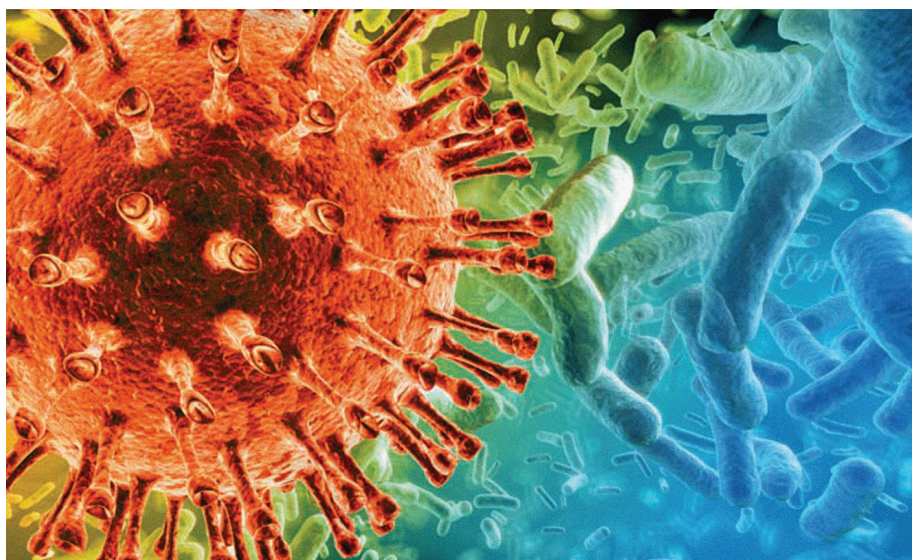


Thermo Scientific

QMS Teicoplanin Immunoassay

- Liquid, stable, and ready-to-use reagents
- Excellent correlation to the Innofluor Teicoplanin assay
- Optimal sensitivity (LOQ is $\leq 3.0 \mu\text{g/mL}$), dynamic range (3 – 50 $\mu\text{g/mL}$) and total precision ($< 6\%$)
- Exceptional on-board reagent stability 30 days
- Calibration curve stability > 7 days
- No measurable interference with endogenous substances and prescription drugs
- Applicable on a variety of clinical chemistry analysers



Thermo Scientific™ QMS™ Teicoplanin Immunoassay

The QMS Teicoplanin Immunoassay is intended for the quantitative determination of Teicoplanin in human serum or plasma on automated clinical chemistry analysers, such as the Thermo Scientific™ Indiko™ and Indiko Plus™ Clinical Chemistry analysers, as an aid in the management of patients receiving teicoplanin therapy.

Teicoplanin - The Drug

Teicoplanin (Targocid) is a bactericidal glycopeptide antibiotic, produced by fermentation of *Actinoplanes teichomyceticus*. Similar to Vancomycin, Teicoplanin is active against both aerobic and anaerobic Gram-positive bacteria. It is used for the treatment of moderate to severe infections (including MRSA infections). Determination of teicoplanin concentration may optimise therapy. Teicoplanin trough concentrations that are at least 10 $\mu\text{g/mL}$ may optimize therapy in cases of severe infection.

CE Not for sale in USA



QMS Teicoplanin Assay: The field of drug monitoring is constantly changing. With our many years of experience in developing assays, we are able to anticipate future drug monitoring needs by providing a broad range of innovative drug monitoring solutions. Offering the most extensive menu in the industry, we continue helping our customers meet their distinct drug monitoring requirements.

QMS - The Technology

The Quantitative Microsphere System (QMS) technology uses stable and reproducible microparticles. This particle-enhanced turbidimetric technology is suitable for the measurement of blood levels of therapeutic drugs (TDM) in areas such as infection, epilepsy, cardiology, pain management, and organ transplantation.

Performance Characteristics

Representative performance results obtained on a commercially available automated clinical chemistry analyser that employs the turbidimetric quantitative analysis are shown below.

Precision

A tri-level human serum based control containing Teicoplanin was used in the study. Each level of control was assayed in duplicate twice a day for 20 days. The results of the precision study demonstrate exceptional precision.

Sample	Target Value (µg/mL)	N	Mean (µg/mL)	Within Run %CV	Between Run %CV	Between Day %CV	Total %CV
Control Level 1	10	80	9.8	1.7	1.6	3.7	4.4
Control Level 2	35	80	37.4	1.9	0.4	2.7	3.4
Control Level 3	75	80	75.2	4.2	0.9	2.0	4.7

Method Comparison

Correlation results were obtained by measuring 100 clinical patient samples with the QMS Teicoplanin Assay and Innofluor Teicoplanin Assay. The results demonstrate excellent correlation between the two technologies.

Methods	N	Deming (95% CI)		Passing-Bablok (95% CI)		R
		Slope	Intercept	Slope	Intercept	
QMS vs. Innofluor	100	0.93 (0.89 to 0.96)	0.29 (-0.60 to 1.17)	0.94 (0.90 to 0.97)	0.17 (-0.50 to 0.76)	0.98

Ordering Information

Part Number	Product	Description
0374645	QMS Teicoplanin	Reagent 1: 21 mL (Antibody Reagent) Reagent 2: 9 mL (Microparticle Reagent)
0374652	QMS Teicoplanin Calibrator Set	Level A 1 x 2 mL ea Levels B-F 1 x 1 mL ea
0374660	QMS Teicoplanin Control Set	Tri-level - 3 x 2.0 mL

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