

Technical Datasheet

Analysis Name:	Determination of Fluoroquinolones by ELISA method
Method Number:	LIBR 073
Scope Application:	This instruction describes a method for determination of fluoroquinolones antibiotics by ELISA method.
Description:	The test is a competitive enzyme immunoassay performed on a microtiter plate. The wells are coated with sheep antibodies anti-rabbit IgG. Fluoroquinolone standards or sample solutions, horseradish peroxidase labelled with norfloxacin (norfloxacin-HRPO) and rabbit polyclonal anti-fluoroquinolone antibodies are added. The antibodies are bound by the immobilised sheep antibodies anti-rabbit IgG and simultaneously the free fluoroquinolones and norfloxacin-HPRO compete for binding to the anti-fluoroquinolones antibody. After incubation, any unbound molecule is removed in a washing step. The bound enzyme activity is determined by adding a chromogenic substrate. The enzyme converts the colourless chromogen into a coloured (blue) product. The addition of a stop reagent leads to a colour change from blue to yellow. The absorbance is measured with a microplate reader at 450 nm. The colour intensity is inversely proportional to the fluoroquinolone concentration in the sample.
Sample Weight Required:	100 g
Method Reference:	-
Analytical Platform:	ELISA
Special Information:	Method not accredited.

Analyte Reported	Alias	Unit of Measure	Typical Limit of Quantification	Uncertainty
Fluoroquinolones	-	µg/kg	3.0	< 34 %