

## Datasheet for ABIN997089 Streptomycin ELISA Kit



OverviewQuantity:96 testsTarget:StreptomycinReactivity:StreptomycesMethod Type:Sandwich ELISAApplication:ELISAProduct DetailsStreptomycin quantitative test is based on the principle of the enzyme-linked immunosorbent

	assay.
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	1 ng/mL

Target Details

Target:	Streptomycin
Abstract:	Streptomycin Products
Target Type:	Chemical
Application Details	
Assay Time:	1 h

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## Application Details

Plate:	Pre-coated
Assay Procedure:	1. Prepare samples as described above.
	2. Pipette 100 $\mu L$ standards or prepared samples in duplicate into the appropriate wells of the
	microtiter plate. Immediately add 50 $\mu$ L anti-streptomycin antibody into each well.
	3. Cover the microtiter plate with a plastic foil and incubate for 30 minutes at room
	temperature.
	4. Without preceding washing add 50 $\mu$ L streptomycin-peroxidase conjugate into each well.
	5. Cover the microtiter plate with a plastic foil and incubate additional 15 minutes at room
	temperature.
	6. Wash the plate three times as follows: Discard the contents of the wells (dump or aspirate).
	Pipette 300 $\mu L$ of diluted washing solution into each well. After the third repetition empty the
	wells again and remove residual liquid by striking the plate against a paper towel. The wash
	procedure is critical. Insufficient washing will result in poor precision and falsely elevated
	absorbencies.
	7. Pipette 100 µL of substrate solution into each well.
	8. Allow the reaction to develop in the dark (e.g. cupboard or drawer, the chromogen is light-
	sensitive) for 15 minutes at room temperature.
	9. Stop enzyme reaction by adding 100 $\mu L$ of stop solution (0.5 M H2SO4) into each well. The
	blue colour will turn yellow upon addition.
	10. After thorough mixing, measure absorbance at 450 nm (reference wavelength 620 nm),
	using an ELISA reader. The colour is stable for 30 minutes.
Calculation of Results:	1. Calculate the average optical density (OD 450 nm) for each set of reference standards or
	samples.
	2. Construct a standard curve by plotting the mean optical density obtained for each reference
	standard against its concentration in ng/mL on semi-log graph paper with the optical density
	on the vertical (y) axis and the concentration on the horizontal $(x)$ axis.
	3. Using the mean ontical density value for each sample, determine the corresponding
	concentration of strentomycin in ng/ml, from the standard curve. Depending on experience
	and/or the availability of computer canability other methods of data reduction may be
	employed.
	4 The diluted samples must be further converted by the appropriate sample dilution factor. The
	factors are listed for each sample matrix in the sample preparation section. Note: Due to matrix
	effects some negative samples may show a certain blank value. In validation experiments this

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## Application Details

Storage Comment:	Store at 2-8 °C
Storage:	4 °C
Handling	
Restrictions:	For Research Use only
	0 ng/mL) 0 100 2 73 5 53 20 33 50 14 200 7
	standard curve which has to be measured in every new test. Streptomycin (ng/mL) $\%$ binding of
	the 0 ng/mL standard. These values are only an example and should not be used instead of the
	example for a typical standard curve. The binding is calculated as percent of the absorption of
	detection of the method. TYPICAL STANDARD VALUES The following table contains an
	was determined to be around 1-2 ng/mL. This value has to be considered as the limit of