

Cholesterol Oxidase



Product description	Cholesterol Oxidase
Product code	CO6
Use	The product is supplied for <i>invitro</i> use only. To be used for research and/or further manufacturing purposes and is not to be used in humans or animals.
Data guidance	Cholesterol oxidase was tested in a biosensor format to demonstrate performance in application. Protocols and further information can be provided by request.

Performance metrics

Performance evaluation	Result
Dry Assay Linearity Range (r2)	0-16 mM (> 0.99) See section A
Sensitivity (LOB)	0.57 mM
Temperature profile	Maximum activity at 37 °C See section B
pH profile	Maximum activity at pH 5.5 See section C
Dried enzyme stability	Stable for at least 28 days at 21 °C See section D



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Section A – Linearity



Assay method

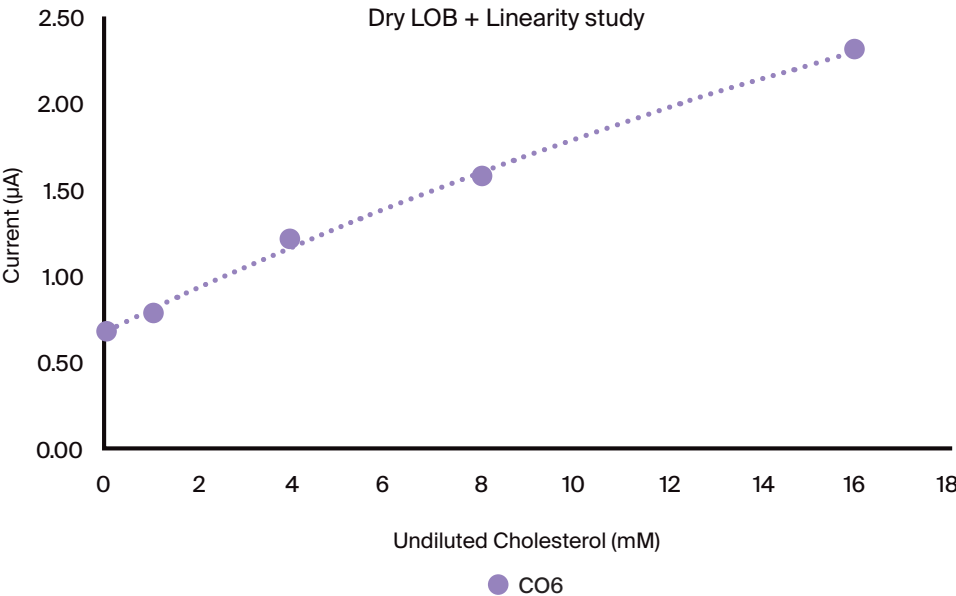
The enzyme mix was dried on the surface of a screen-printed carbon electrode and then followed with the addition of hydroquinone, HRP and cholesterol sample followed by an incubation, measurement (chronoamperometry) and analysis.

Electrochemical measurement:

Applied -0.25V for 60 seconds and measured current.

Analysis:

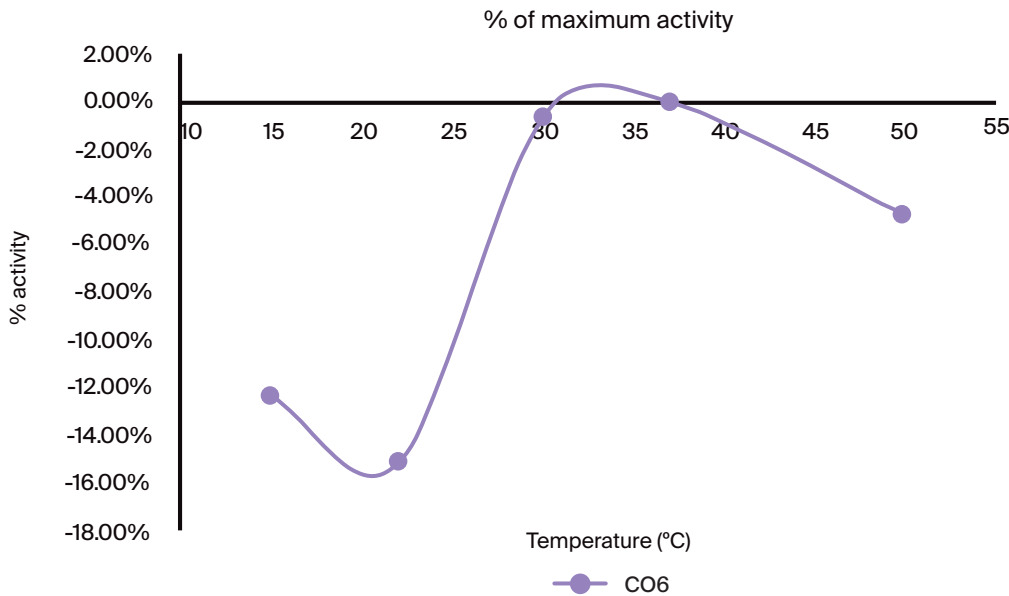
Averaged current between 10 – 20 seconds for each replicate performed



Metrics for test

Average %CV	2.30%
LOB (mM)	0.57
LOD (mM)	0.81
R-squared	0.99

Section B – Temperature profile

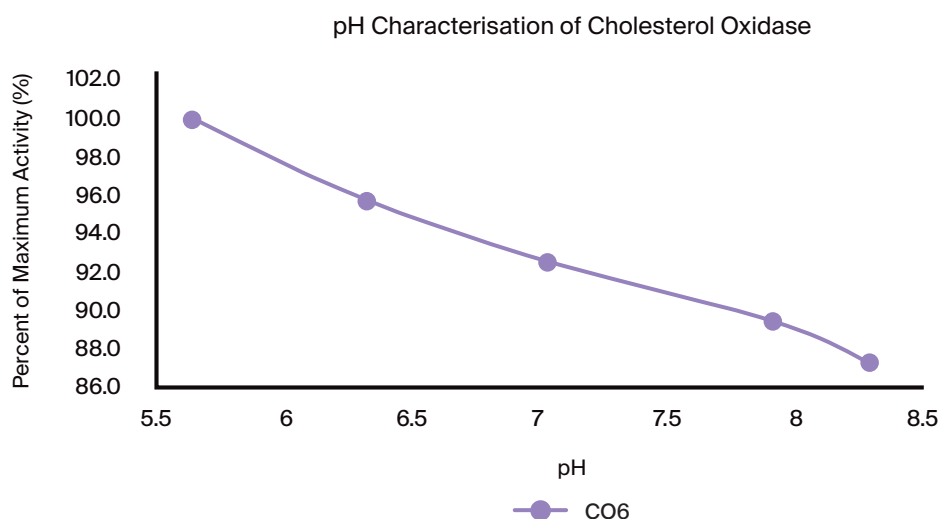
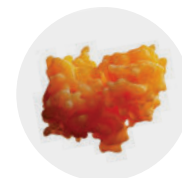


Percentage activity of the enzyme at different temperatures.

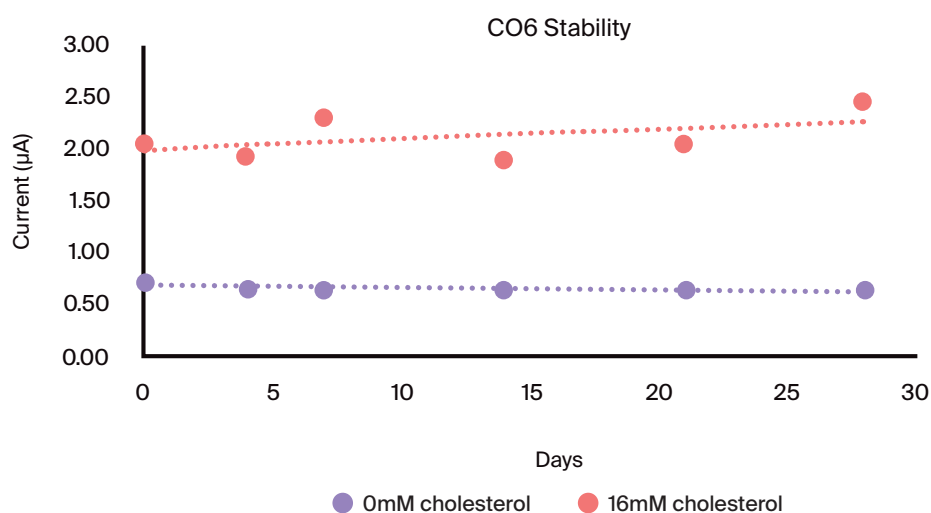


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productsupport@bbisolutions.com
Int: +44 (0)1495 363 000 USA: +1 888 222 4149 China: +86 (0)21 6104 2216

Section C – pH profile



Section D – Stability



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