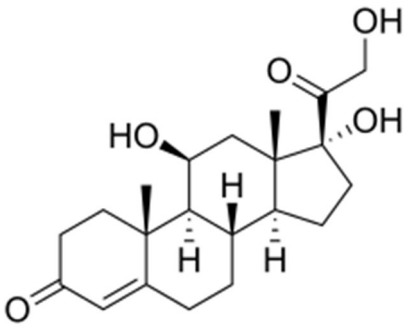
Case Study:

Cortisol Assay Development

Detecting: **Cortisol**

A stress hormone in the glucocorticoid hormone class.



Issue:

Standard small molecule lateral flow assays produce a positive test outcome with a faint or negative read (i.e. no test line = positive test). This is counter-intuitive for users and only useful for producing qualitative (yes/no, positive/negative) results.

A positive read lateral flow assay would enable the fast, convenient and cost-effective measurement of cortisol levels (and hence stress levels) in an individual. This would be a useful asset in monitoring the health and wellbeing of people who are subject to (or suffer from) high levels of stress.

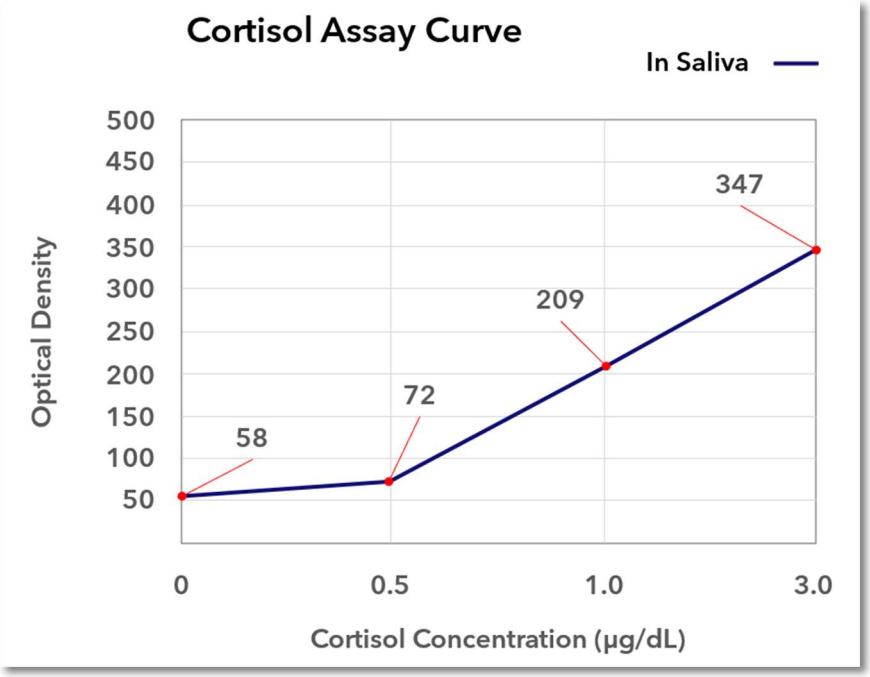
Objective:

Produce a reliable, convenient, cost-effective, quantitative, positive read lateral flow assay.

Sample:

Saliva

Result:



The assay curve demonstrates that even at low levels of concentration, we were able to produce a clear positive and measurable read of cortisol levels.

These results were produced with a 20-minute run time.

Applications:

Occupational health. General health and wellbeing.

For more information about this and other case studies, please contact
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