Direct Thiaminase Measurement Method

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Abstract

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## 1 Introduction

Source: [Article Notebook](https://dwprt.github.io/thiaminase-man/index.qmd.html)

The ten minute detection limit was 4.95 nmol g min

The thirty minute detection limit was 1.65

## 2 Methods

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| --- |
| Figure 1: Thiamine concentrations in SRM 1946 before and after 30 min incubation show no significant change (paired *t*-test, *p* = 0.36). Different shapes represent measurements from separate analysis days. |

Source: [Limit of Detection](https://dwprt.github.io/thiaminase-man/notebooks/determine-detection-limit-preview.html#cell-fig-lod-boxplot)

as you can see in [Figure 1](#fig-lod-boxplot)

|  |
| --- |
| Figure 2 |

Source: [hplc\_chromatogram](https://dwprt.github.io/thiaminase-man/notebooks/hplc_chromatogram-preview.html#cell-fig-chromatogram-panel)

[Equation 1](#eq-direct-thiaminase)

[1]

[2]

## 3 Results and Discussion

## 4 Conclusion

## References

[1] [J. W. Hanes, C. E. Kraft, T. P. Begley, *Analytical Biochemistry* **2007**, *368*, 33–38](https://doi.org/10.1016/j.ab.2007.06.001).

[2] [C. E. Kraft, E. R. L. Gordon, E. R. Angert, *PLoS ONE* **2014**, *9*, e92688](https://doi.org/10.1371/journal.pone.0092688).