

TINFE HTS

Science-led SaaS that fixes the Inner Filter Effect in fluorescence

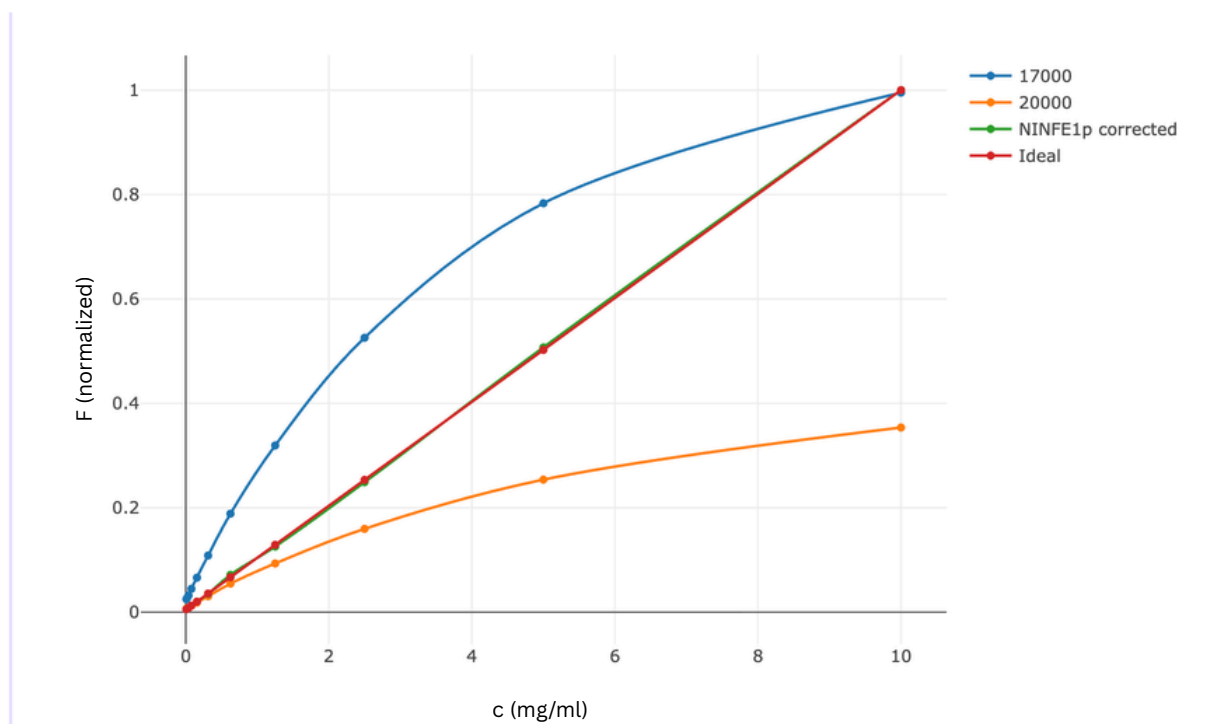
Bringing accuracy to fluorescence assays with a cloud-first, audit-ready correction platform.



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Human Serum Albumin (HSA) in PBS buffer solution. $A = 5.5$ at 10 mg/mL HSA (normalized to 1 cm path length).

TINFE is a **cloud-based SaaS** that automatically detects and corrects the **Inner Filter Effect (IFE)** — an optical effect that distorts fluorescence assay data. Our solution **restores microplate assay linearity** without new hardware or disruptive workflow changes and can be live in under one hour for modern plate readers.

The commonly accepted limit for reliable fluorescence measurements is absorbance $A = 0.05$. While TINFE is validated to handle absorbance values up to $A = 2$, we have experimentally demonstrated accurate corrections at $A = 5$ and beyond. The method is **applicable to any fluorophore** and is entirely **hardware agnostic**.



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