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## INSTRUCTIONS

# ProFoldin NanoGram DNA Assay Reagent

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**CATALOG NUMBER            NDA500**

### INTRODUCTION

The NanoGram DNA Assay Reagent is for measurement of 10 ng – 2000 ng of DNA. The assay is based on the principle that DNA binds to the NanoGram fluorescence dye (Reagent D) and enhances the fluorescence intensity at 535 nm (excitation 485 nm). The assay reagent (catalog number NDA500) provides the reagents for measurement of 500 samples using 96-well plates or 2000 samples using 384-well plates. It can be used for measurement of DNA in an aqueous solution with DNA concentrations between 0.5 - 100 nanogram per microliter.

### DNA STANDARD CURVE

1. Dilute the 10 x Reagent D with water 10 fold to make 1 x Reagent D.
2. Prepare a series of standard DNA solutions with concentrations from 0.5 to 100  $\mu\text{g} / \text{ml}$ .
3. Mix 20  $\mu\text{l}$  of the DNA solution with 200  $\mu\text{l}$  of the 1 x Reagent D in the wells of a 96-well plate for 15 min.
4. Read fluorescence intensity at 535 nm (excitation 485 nm) and plot the standard curve.

### DNA SAMPLE MEASUREMENT

1. Mix 20  $\mu\text{l}$  of the DNA sample with 200  $\mu\text{l}$  of the 1 x Reagent D in the wells of a 96-well plate for 15 min.
2. Read the fluorescence intensity at 535 nm (excitation 485 nm) and calculate the DNA concentration based on the standard curve.