



GFP “Fold ‘n’ Glow” Positive Control

Product Number #21004002

PRODUCT INSERT

INTENDED USE: *FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES*

This product is intended for use as a positive control for either of the GFP “Fold ‘n’ Glow” Solubility Assay Kits provided by Sandia Biotech. This positive control, terminally tagged with wild type GFP stand 11, will provide a time-dependent increase in fluorescence when incubated with detection reagent, GFP 1-10 and will allow for the determination the amount of protein that is properly folded in a given sample as the folding reporter gives a signal directly proportional to the amount of correctly folded protein¹.

This positive control is supplied as ready to use 500 μ L volume at 5 μ M and should be stored at -20°C. It is recommended to use 2 wells per plate with 20 μ L per well and dilute serially.

Note: The stability of this product is approximately 6 months when stored at -20°C. When stored properly, this reagent is stable until the date indicated either on the box or each component. Depending on the particular usage requirements, it may be appropriate to re-aliquot reagents to smaller working volumes to avoid repeated freeze-thawing or repeated pipetting from the same vial.

DATA ANALYSIS

Data Analysis

Subtract the blank fluorescence values from the final fluorescence values of the sample(s) and the positive control. Estimate protein concentration by comparing fluorescence on the standard curve.

REFERENCES

1. Waldo et al. "Rapid protein-folding assay using green fluorescent protein," *Nature Biotechnology* 17, 691 - 695, July 1999.

Suggested Plate Configuration

	1	2	3	4	5	6	7	8	9	10	11	12
A	Neat positive control	Neat positive control	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
B			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
C			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
D			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
E			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
F			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
G	↓	↓	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Blank BSA negative control	Blank BSA negative control
H	.39nM positive control	.39nM positive control	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Blank BSA negative control	Blank BSA negative control

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