

[Measure DNA Amount in isolated Xs by PicoGreen]

Material required

*Comment

- Quant-iT PicoGreen dsDNA Reagent (Invitrogen - P7589)
- Linear between DNA concentrations 10^{-2} - 10^{-4} $\mu\text{g/ml}$.

TE

Final	Name	Stock sol.	AMT
1x	20xTE	20x	<input type="checkbox"/> 600 μl
	ddH ₂ O		<input type="checkbox"/> 11.4 ml

Pico Green Working Sol.

Final	Name	Stock sol.	AMT
1/200	Pico Green	200x	<input type="checkbox"/> 10 μl
	TE	1x	<input type="checkbox"/> 1990 μl

1 $\mu\text{g/ml}$ Lambda DNA Standard

Final	Name	Stock sol.	AMT
1 $\mu\text{g/ml}$	Lambda DNA	100 $\mu\text{g/ml}$	<input type="checkbox"/> 5 μl
	TE		<input type="checkbox"/> 495 μl

10^{-1} $\mu\text{g/ml}$ Lambda DNA Standard

Final	Name	Stock sol.	AMT
10^{-1} $\mu\text{g/ml}$	Lambda DNA	1 $\mu\text{g/ml}$ from above	<input type="checkbox"/> 100 μl
	TE		<input type="checkbox"/> 900 μl

10^{-2} $\mu\text{g/ml}$ Lambda DNA Standard

Final	Name	Stock sol.	AMT
10^{-2} $\mu\text{g/ml}$	Lambda DNA	10^{-1} $\mu\text{g/ml}$ from above	<input type="checkbox"/> 100 μl
	TE		<input type="checkbox"/> 900 μl

10^{-3} $\mu\text{g/ml}$ Lambda DNA Standard

Final	Name	Stock sol.	AMT

10^{-3} μ g/ml	Lambda DNA	10^{-2} μ g /ml from above	<input type="checkbox"/> 100 μ l
	TE		<input type="checkbox"/> 900 μ l

 10^{-4} μ g /ml Lambda DNA Standard

Final	Name	Stock sol.	AMT
10^{-4} μ g/ml	Lambda DNA	10^{-3} μ g /ml from above	<input type="checkbox"/> 100 μ l
	TE		<input type="checkbox"/> 900 μ l

 10^{-5} μ g /ml Lambda DNA Standard

Final	Name	Stock sol.	AMT
10^{-5} μ g/ml	Lambda DNA	10^{-4} μ g /ml from above	<input type="checkbox"/> 100 μ l
	TE		<input type="checkbox"/> 900 μ l

1/10 XSXs :A260~ 0.03 ODml/10 μ l

Final	Name	Stock sol.	AMT
1/10	XS	XS prep final sample	<input type="checkbox"/> 50 μ l
	Buffer4		<input type="checkbox"/> 450 μ l

1/100 XS

Final	Name	Stock sol.	AMT
1/100	XS	1/10 XS from above	<input type="checkbox"/> 100 μ l
	Buffer4		<input type="checkbox"/> 900 μ l

1/1,000 XS

Final	Name	Stock sol.	AMT
1/1,000	XS	1/100 XS from above	<input type="checkbox"/> 100 μ l
	Buffer4		<input type="checkbox"/> 900 μ l

1/10,000 XS

Final	Name	Stock sol.	AMT
1/10,000	XS	1/1,000 XS from above	<input type="checkbox"/> 100 μ l
	Buffer4		<input type="checkbox"/> 900 μ l

Procedure

**Comments

Use 10^{-1} - 10^{-5} $\mu\text{g/ml}$ Lambda DNA as Standard
1/10 - 1/10,000 Xs Sample

100 μl of Standard DNA (10^{-1} - 10^{-5})
100 μl of PiCo Green Working Sol.

200 μl Total

100 μl of Xs Sample (1/10 - 1/10,000)
100 μl of PiCo Green Working Sol.

200 μl Total

All mix in 96-well plate
5' @ RT

Measure fluorescence by Spectra Max M5 on 3rd Floor

Turn the Computer on
Turn the Device on

Start SoftMax Pro 5.4

Plate > Setting

Preference

Read Mode : fluorescence (RFUs)
Wavelength : Wavelengths > 1
Excitation > 480 nm
Emission > 520 nm
Auto cutoff > ON

Plate : 96wells Greiner blac/clrbtm

>OK

>READ

File >Import/Export >Export

Save text file in Softmax Pro User Data

Troubleshooting