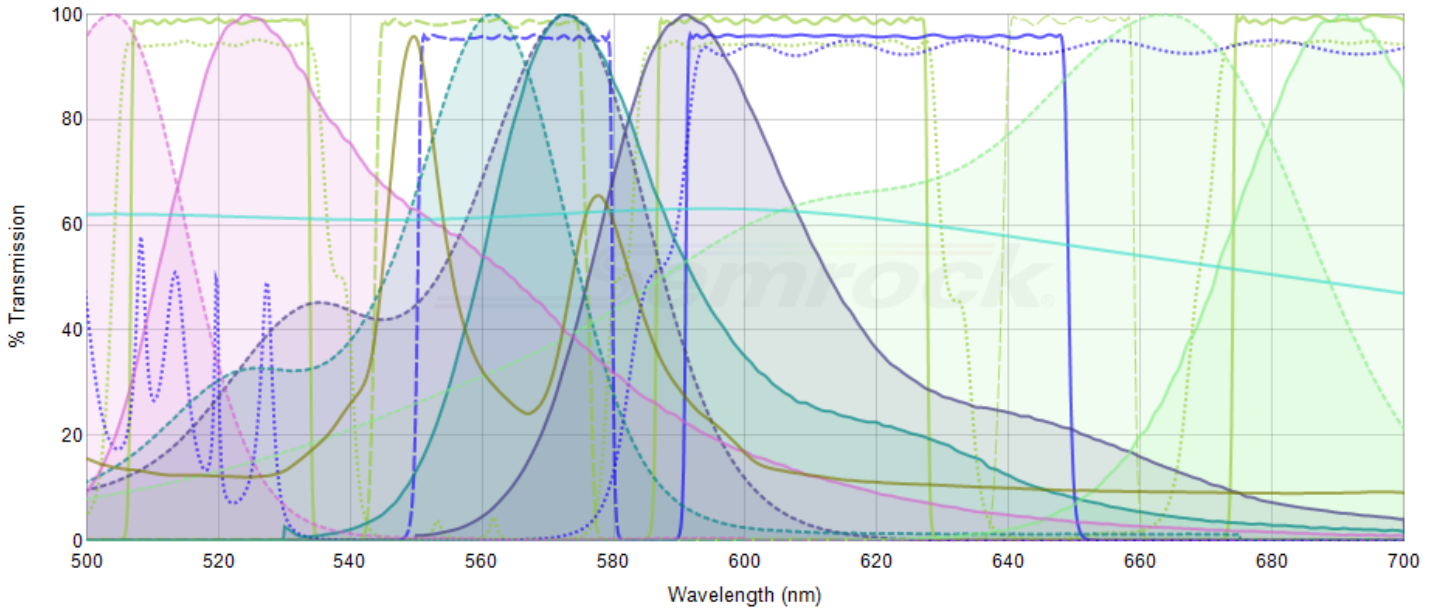


All



Legend

DA/FI/TR/Cy5-4X-B

- FF01-387/11
- FF02-485/20
- FF01-560/25
- FF01-650/13
- FF01-440/521/607/700
- FF410/504/582/669-Di01

Cy3.5-A-Basic

- FF01-565/24
- FF01-620/52
- FF585-Di01

Rhodamine Red-X

- Rhodamine Red-X - Abs
- Rhodamine Red-X - Em

Alexa Fluor 546

- Alexa Fluor 546 - Abs
- Alexa Fluor 546 - Em

Alexa Fluor 660

- Alexa Fluor 660 - Abs
- Alexa Fluor 660 - Em

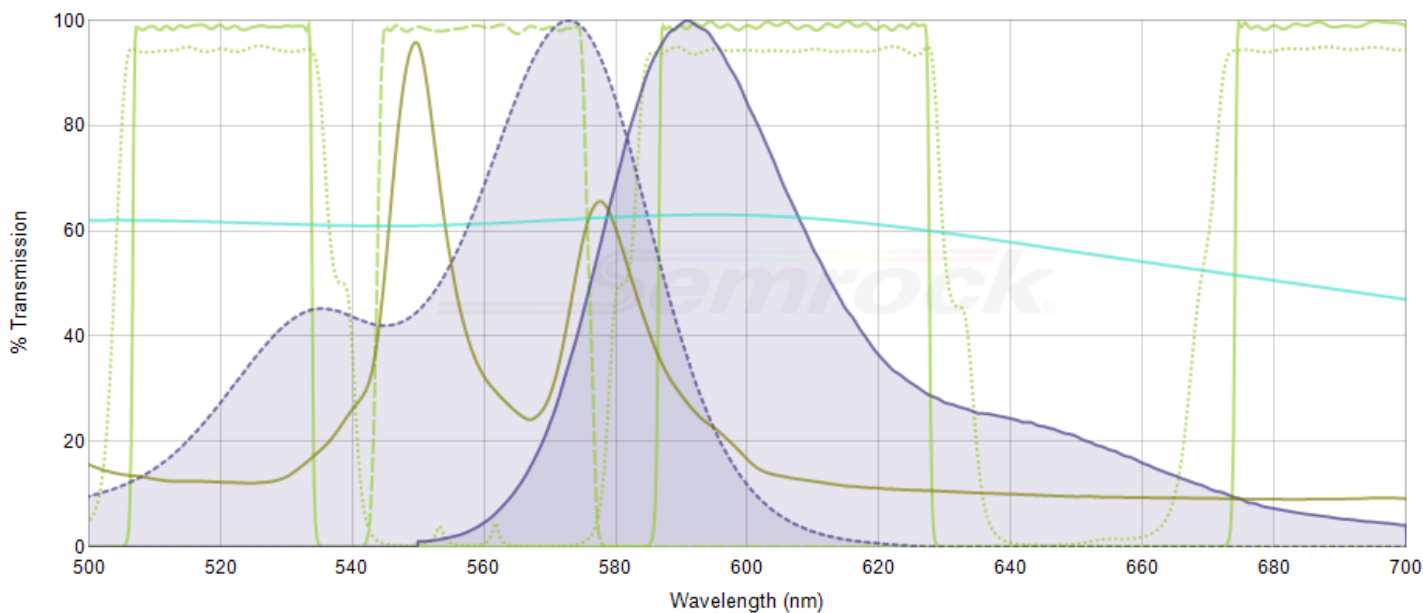
SYTOX Green-DNA

- SYTOX Green-DNA - Abs
- SYTOX Green-DNA - Em

Lamp Metal Halide - (Lumen Dynamics X-Cite 120mW)

Camera CCD (Roper Scientific CoolSNAP HQ2)

RhodRedX Aperio Stnd



Basic Inputs

Exciter	FF01-560/25
Emitter	FF01-440/521/607/700
Dichroic	FF410/504/582/669-Di01
Fluorophore Absorption	Rhodamine Red-X - Abs
Fluorophore Emission	Rhodamine Red-X - Em
Light Source	Lamp Metal Halide - (Lumen Dynamics X-Cite 120mW)
Detector	Camera CCD (Roper Scientific CoolSNAP HQ2)

Advanced Inputs

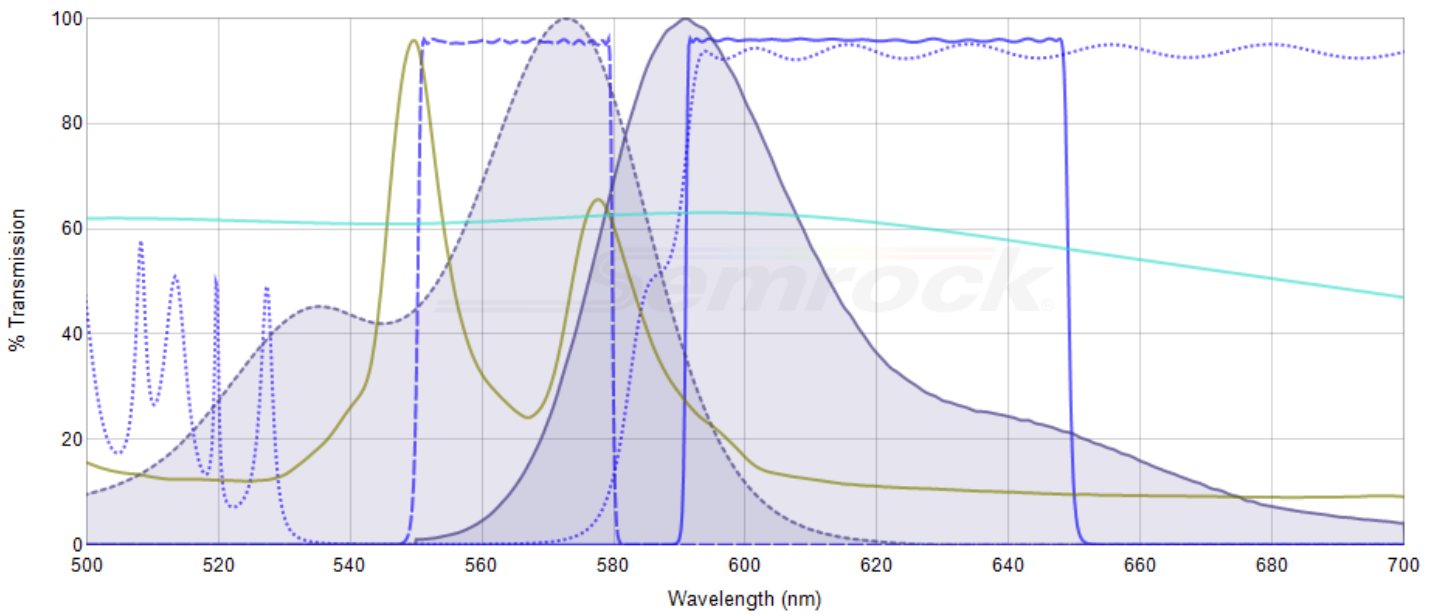
Light Source Power (mW)	100
Numerical Aperture	0.5
Index of Refraction	1
Fluorophore Optical Depth (M cm)	1E-12
Fluorophore DMAC ($M^{-1}cm^{-1}$)	129000
Fluorophore Quantum Yield	0.65
Reflected Excitation Light Factor	0.07
Autofluorescence Light Factor	0.1
Transmitted Excitation Light Factor	0.95
Transmitted Emission Factor	0.95

Output

Fluorescence Signal (mW)	1.6418E-06
Excitation Light Noise (mW)	4.5314E-08
Autofluorescence Noise (mW)	1.3799E-06
Signal-to-Noise Ratio	1.152



RhodRedX Cy3Filters



Basic Inputs

Exciter	FF01-565/24
Emitter	FF01-620/52
Dichroic	FF585-Di01
Fluorophore Absorption	Rhodamine Red-X - Abs
Fluorophore Emission	Rhodamine Red-X - Em
Light Source	Lamp Metal Halide - (Lumen Dynamics X-Cite 120mW)
Detector	Camera CCD (Roper Scientific CoolSNAP HQ2)

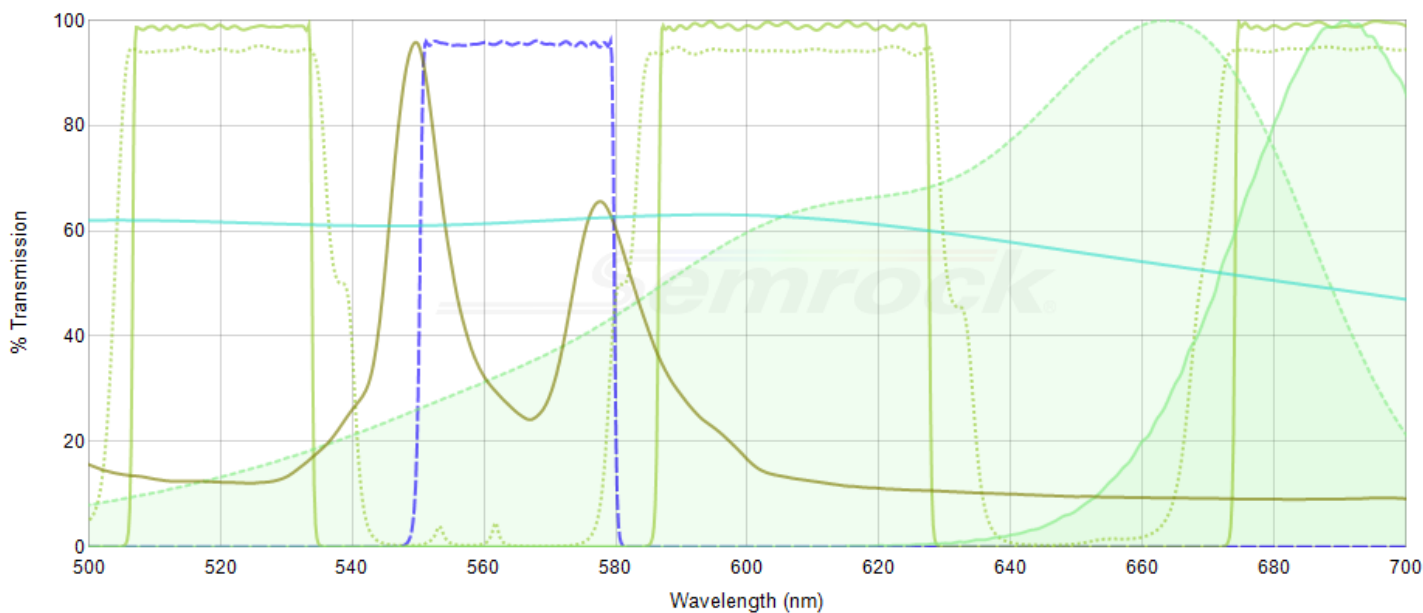
Advanced Inputs

Light Source Power (mW)	100
Numerical Aperture	0.5
Index of Refraction	1
Fluorophore Optical Depth (M cm)	1E-12
Fluorophore DMAC ($M^{-1}cm^{-1}$)	129000
Fluorophore Quantum Yield	0.5
Reflected Excitation Light Factor	0.07
Autofluorescence Light Factor	0.1
Transmitted Excitation Light Factor	0.95
Transmitted Emission Factor	0.95

Output

Fluorescence Signal (mW)	1.1473E-06
Excitation Light Noise (mW)	3.341E-09
Autofluorescence Noise (mW)	3.3773E-07
Signal-to-Noise Ratio	3.3638

Alexa660 on Cy3 filters (excit)



Basic Inputs

Exciter	FF01-565/24
Emitter	FF01-440/521/607/700
Dichroic	FF410/504/582/669-Di01
Fluorophore Absorption	Alexa Fluor 660 - Abs
Fluorophore Emission	Alexa Fluor 660 - Em
Light Source	Lamp Metal Halide - (Lumen Dynamics X-Cite 120mW)
Detector	Camera CCD (Roper Scientific CoolSNAP HQ2)

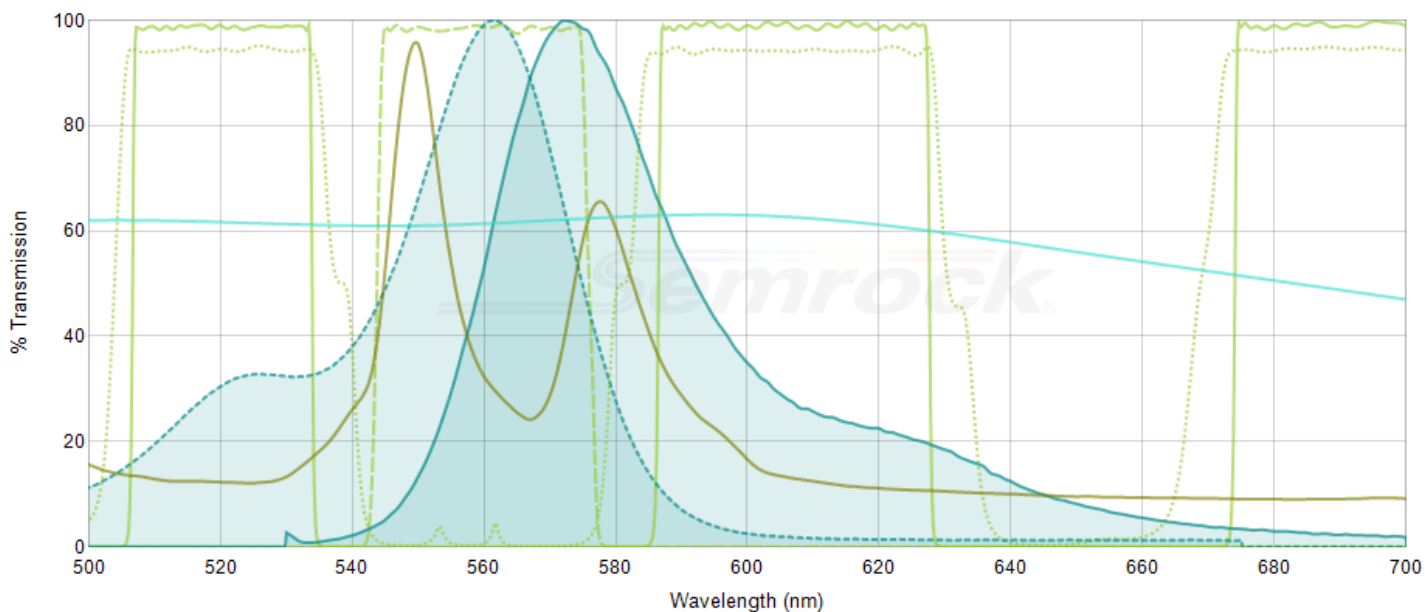
Advanced Inputs

Light Source Power (mW)	100
Numerical Aperture	0.5
Index of Refraction	1
Fluorophore Optical Depth (M cm)	1E-12
Fluorophore DMAC ($M^{-1}cm^{-1}$)	132000
Fluorophore Quantum Yield	0.37
Reflected Excitation Light Factor	0.07
Autofluorescence Light Factor	0.1
Transmitted Excitation Light Factor	0.95
Transmitted Emission Factor	0.95

Output

Fluorescence Signal (mW)	4.0803E-07
Excitation Light Noise (mW)	7.8196E-09
Autofluorescence Noise (mW)	6.4611E-07
Signal-to-Noise Ratio	0.62397

Alexa546 (Dylight549) Aperio



Basic Inputs

Exciter	FF01-560/25
Emitter	FF01-440/521/607/700
Dichroic	FF410/504/582/669-Di01
Fluorophore Absorption	Alexa Fluor 546 - Abs
Fluorophore Emission	Alexa Fluor 546 - Em
Light Source	Lamp Metal Halide - (Lumen Dynamics X-Cite 120mW)
Detector	Camera CCD (Roper Scientific CoolSNAP HQ2)

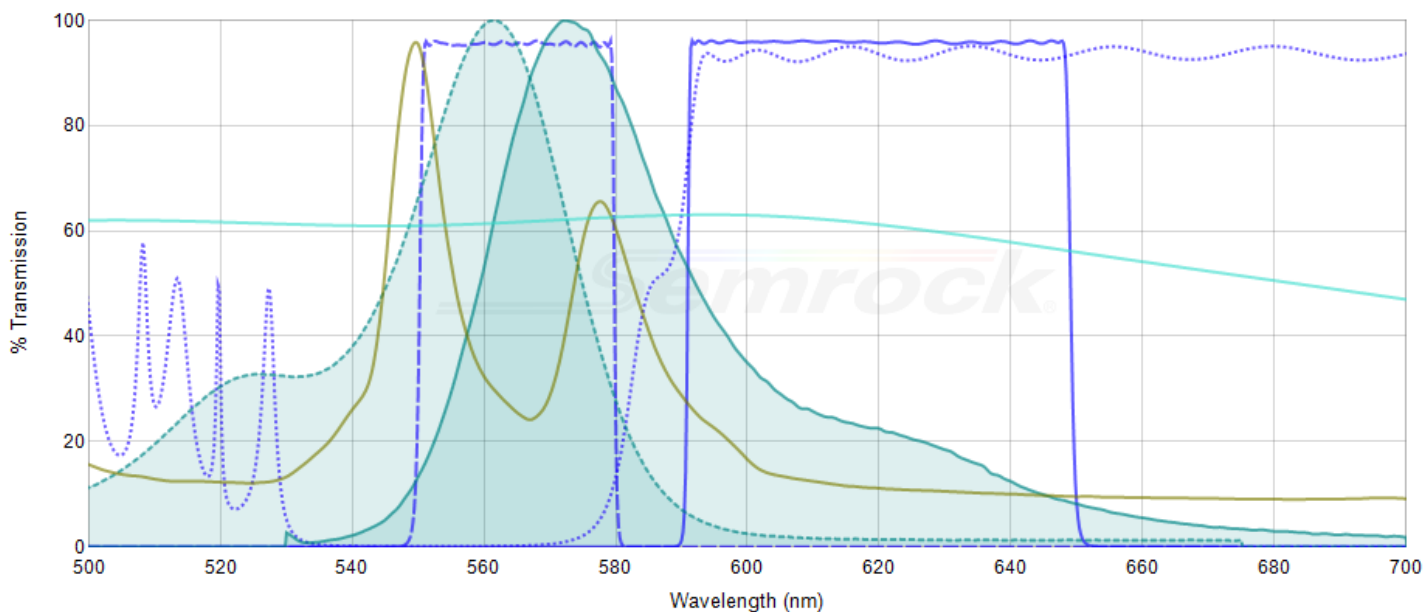
Advanced Inputs

Light Source Power (mW)	100
Numerical Aperture	0.5
Index of Refraction	1
Fluorophore Optical Depth (M cm)	1E-12
Fluorophore DMAC ($M^{-1}cm^{-1}$)	150000
Fluorophore Quantum Yield	0.5
Reflected Excitation Light Factor	0.07
Autofluorescence Light Factor	0.1
Transmitted Excitation Light Factor	0.95
Transmitted Emission Factor	0.95

Output

Fluorescence Signal (mW)	8.3407E-07
Excitation Light Noise (mW)	4.5314E-08
Autofluorescence Noise (mW)	1.2343E-06
Signal-to-Noise Ratio	0.65183

Alexa546 (Dylight549) Cy3.5



Basic Inputs

Exciter	FF01-565/24
Emitter	FF01-620/52
Dichroic	FF585-Di01
Fluorophore Absorption	Alexa Fluor 546 - Abs
Fluorophore Emission	Alexa Fluor 546 - Em
Light Source	Lamp Metal Halide - (Lumen Dynamics X-Cite 120mW)
Detector	Camera CCD (Roper Scientific CoolSNAP HQ2)

Advanced Inputs

Light Source Power (mW)	100
Numerical Aperture	0.5
Index of Refraction	1
Fluorophore Optical Depth (M cm)	1E-12
Fluorophore DMAC ($M^{-1}cm^{-1}$)	112000
Fluorophore Quantum Yield	0.5
Reflected Excitation Light Factor	0.07
Autofluorescence Light Factor	0.1
Transmitted Excitation Light Factor	0.95
Transmitted Emission Factor	0.95

Output

Fluorescence Signal (mW)	4.664E-07
Excitation Light Noise (mW)	3.341E-09
Autofluorescence Noise (mW)	2.9322E-07
Signal-to-Noise Ratio	1.5727