Materials List for:

Second Harmonic Generation Signals in Rabbit Sclera As a Tool for Evaluation of Therapeutic Tissue Cross-linking (TXL) for Myopia

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Materials

Name	Company	Catalog Number	Comments
MILLI-Q SYNTHESIS A10 120V	EMD Millipore, Massachusetts, USA		Double distilled, deionized water. - protocol step 1.1.1
Sodium hydroxymethylglycinate	Tyger Chemicals Scientific, Inc. Ewing, NJ, USA		Crosslinking reagent - protocol step 1.1.2
Injection needle with luer-lock syringe	BD Eclipse, NJ, USA		Syringe for sub tenon injection. - protocol step 2.1
Rabbit head	La Granja poultry	Outbred	Rabbit head separated and delivered within 1 hour postmortem. - protocol step 2.2
Tono-pen	Reichter Technologies Depew, NY		IOP measurements - protocol step 2.4
DSC 6000 Autosampler	Perkin-Elmer Waltham, MA, USA		Thermal denaturation analyzer - protocol step 7.4
Pyris software	Perkin-Elmer, Waltham, MA, USA	Ver 11.0	protocol step 7.5
CFI75 Apochromat LWD 25X/1.10 W MP	Nikon Instruments, Melville, NY, USA		A water immersionn objective with high IR transmittance with a working distance of 2.0 mm - protocol step 8.1.1.
GenTeal	Alcon, Fort Worth, TX	B000URVDQ8	Water-based gel used as objective immersion medium instead of water to prevent evaporation - 8.1.1
Chameleon Vision II	Coherent, Santa Clara,CA, USA		Ti:Sapphire pulsed laser with a 140 fs pulse width at 80 MHz and a tunable range from 680 nm to 1080 nm. - protocol step 8.1.11
AttoFluor cell chamber	Thermo Fisher Scientific Inc	A7816	Fixation of the cover slip - protocol step 8.1.3
25-mm round coverslips, #1.5	Neuvitro Corporation, Vancouver, WA, USA	GG-25-1.5	protocol step 8.1.3
Eclipse Ti-E	Nikon Instruments, Melville, NY, USA		protocol step 8.1.4.
Non-descanned (NDD) GaAsP detector	Nikon Instruments, Melville, NY, USA		Equipped with a 400-450 nm band pass filter - protocol step 8.1.7
A1R-MP laser scanning system	Nikon Instruments, Melville, NY, USA		Compatible with infrared (IR) multi-photon excitation. - protocol step 8.1.8
NIS Elements software	Nikon Instruments, Melville, NY, USA	Ver 4.3	refered to as "software" in the text - protocol step 8.1.9
Fiji/ImageJ	National Institute of Health		protocol step 9.1.2

NeuronJ	Eric Meijering, Erasmus University Medical Center, Rotterdam, The Netherlands		https://imagescience.org/meijering/software/neuronj/, for protocol step 9.2.2
Microsoft Excel	Microsoft Corporation, Redmond, WA, USA	Ver 14	protocol step 9.2.8