

Materials List for

Separation of Rat Epidermis and Dermis with Thermolysin to Detect Site-Specific Inflammatory mRNA and Protein

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Materials

Name	Company	Catalog Number	Comments
λ-carrageenan	Millipore Sigma	22049	Subcutaneous injection of carrageenan induces inflammation
7500 Fast Real-Time PCR System	Thermo Fisher Scientific	4351107	For RT-PCR analysis
Calcium chloride (CaCl ₂), anhydrous	Millipore Sigma	499609	Prevents autolysis of thermolysin
Crystal Mount Aqueous Mounting Medium	Millipore Sigma	C0612	Aqueous mounting medium after toluidine blue staining
Donkey anti-Mouse Alexa Fluor 555	Thermo Fisher Scientific	A-31570	Secondary antibody for immunohistochemistry
Donkey anti-Rabbit IgG, Alexa Fluor 488	Thermo Fisher Scientific	A-21206	Secondary antibody for immunohistochemistry
Dulbecco's Modified Eagle Medium	Thermo Fisher Scientific	11966-025	To maintain tissue integrity
Ethylenediaminetetraacetic acid	Millipore Sigma	E6758	Stops thermolysin reaction
Moloney Murine Leukemia Virus (M-MLV) Reverse transcriptase	Promega	M1701	For complementary DNA synthesis
Mouse anti-NGF Antibody (E-12)	Santa Cruz Biotechnology	sc-365944	For neurotrophin immunohistochemistry
ProLong Gold Antifade Mountant	Thermo Fisher Scientific	P36930	To retard immunofluorescence quenching
Rabbit anti-PGP 9.5	Cedarlane Labs	CL7756AP	For intraepidermal nerve staining
SAS Sprague Dawley Rat	Charles River	Strain Code 400	Animal used for inflammation studies
Shandon M-1 Embedding Matrix	Thermo Fisher Scientific	1310TS	Tissue embedding matrix for tinctorial- and immuno-histochemistry
SimpliAmp Thermal Cycler	Thermo Fisher Scientific	A24811	For RT-PCR analysis
SYBR Select Master Mix	Thermo Fisher Scientific	4472908	For RT-PCR analysis
Thermolysin	Millipore Sigma	T7902	From <i>Geobacillus stearothermophilus</i>
Toluidine Blue	Millipore Sigma	89640	For tinctorial staining for brightfield microscopy
TRIzol Reagent	Thermo Fisher Scientific	15596026	For total RNA extraction for RTPCR