

# Papain

Catalog # 60224

*For Research Use Only - Not Human or Therapeutic Use*

DESCRIPTION:	Papain
APPLICATION:	Use for Chondrex, Inc.'s Glycosaminoglycans Assay Kit (Cat # <a href="#">6022</a> )
QUANTITY:	10 mg
FORM:	Lyophilized powder
SOURCE:	Papaya
USAGE:	<p>Papain digestion protocol for glycosaminoglycans, DNA, and denatured collagen</p> <ol style="list-style-type: none"><li>1. Prepare 0.05 M phosphate buffered saline (PBS) pH 6.5 containing 5 mM cysteine and 5 mM EDTA, then add papain to a concentration of 125 µg/ml just before use.</li><li>2. Suspend 10 mg of a tissue sample in 1 ml of the papain solution in a cryovial tube or rubber gasket sealed screw-cap tube.</li><li>3. Incubate at 60°C for several hours or overnight.</li></ol> <p>NOTE 1: Papain-resistant polymers in scaffolds which constitute samples must be destroyed for accurate results. For example, agarose is degraded by incubation at 70°C for 10 minutes, and chitosan can be physically crushed.</p> <p>NOTE 2: Do not exceed 70°C during incubation for a DNA assay, as DNA may denature and fail to bind with the fluorescent dye.</p> <ol style="list-style-type: none"><li>4. Centrifuge at 10,000 rpm for 5 minutes at room temperature.</li><li>5. Transfer the supernatant to a 1.5 ml microcentrifuge tube.</li></ol> <p>NOTE: Use this supernatant immediately to assay DNA with at least 1:50 dilution; sample storage will result in loss of up to 50% of the original DNA fluorescence (1).</p> <ol style="list-style-type: none"><li>6. Store at -80°C for subsequent analysis.</li></ol>
STORAGE:	-20°C
STABILITY:	1 year
NOTES:	N/A
REFERENCES:	N/A