



MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530
Fax: 440/337-1180
mailto: biotech@mpbio.com
web: <http://www.mpbio.com>

TECHNICAL INFORMATION

Catalog Number: 155742

Mucin

CAS # 84195-52-8

Source: Bovine submaxillary glands

Form: Contains approximately 5% of bound sialic acid

Molecular Weight: Approximately 400,000.²

Solubility: Typically prepared as a suspension in water adjusted to pH 5.0 with acetic acid. A 1% w/v solution will appear turbid.

Description: A high viscosity glycoprotein in epithelial mucous secretions. Typically used as a neuraminidase substrate.

References:

- Bertolini, M. and Pigman, W., "Action of alkali on bovine and ovine submaxillary mucins." *J. Biol. Chem.*, **v. 242**, 3776 (1967).
- Downs, F. and Pigman, W., "Preparation of glycopeptides from bovine submaxillary mucin by chemical degradation." *Biochem.*, **v. 8**, 1760 (1969).
- Gottschalk, A. and Graham, E., "6-alpha-D-Sialyl-N-acetyl-galactosamine: A neuraminidase susceptible prosthetic group of bovine salivary mucoprotein." *Biochim. Biophys. Acta*, **v. 34**, 380 (1959).
- Heuser, E., Lipp, K. and Weigandt, H., "Detection of sialic acid containing compounds and the behavior of gangliosides in polyacrylamide disc electrophoresis." *Anal. Biochem.*, **v. 60**, 382 (1974).
- Nisizawa, K. and Pigman, W., "The composition and properties of the mucin clot from cattle submaxillary glands." *Arch. Oral Biol.*, **v. 1**, 161 (1959).
- Pigman, W., Moschera, J., Weiss, M. and Tettamanti, G., "The occurrence of repetitive glycopeptide sequences in bovine submaxillary glycoprotein." *Eur. J. Biochem.*, **v. 32**, 148 (1973).
- Sellers, L., et al., "Submaxillary mucins. Intermolecular interactions and gel-forming potential of concentrated solutions." *Biochem. J.*, **v. 256**, 599 (1988).
- Tettamanti, G. and Pigman, W., "Purification and characterization of bovine and ovine submaxillary mucins." *Arch. Biochem. Biophys.*, **v. 124**, 41 (1968).