Echelon Biosciences Inc.

Select-HA™

Product Name	Catalog Number	Molecular Mass
Select-HA™ 50k	HYA-0050	25 MDa – 70 kDa
Select-HA™ 500k	HYA-0500	450 kDa – 550 kDa
Select-HA™ 600k	HYA-0600	550 kDa – 650 kDa
Select-HA™ 1000k	HYA-1000	950 kDa – 1100 kDa
Select-HA™ 1250k	HYA-1250	1100 kDa – 1300 kDa

Support: echelon@echelon-inc.com

Description:
Select-HA™ is a hyaluronic acid (HA) preparation of uniform and narrow size distribution prepared by in vitro synthesis using recombinant *Pasteurella multocida* hyaluronan synthase[1]. Select-HA™ is a trademark of Hyalose LLC.

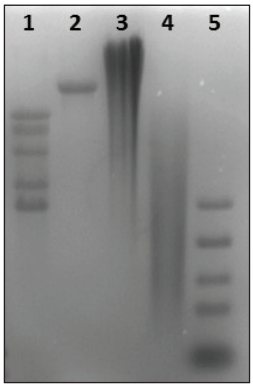
Properties:

Size – 1 mg. Determined by Carbozole Assay based on free acid form. Due to the existence of sodium, the actual dry weight is more than 1 mg.
Form – lyophilized hyaluronan polymers as sodium salts
Storage – -20 °C or below. Avoid frequent freeze-thaw, aliquoting is recommended. Avoid contamination with microbes or HA-degrading enzymes.
Reconstitution – Carefully open vial and add desired amount of water or desired buffer. Ensure HA powder at the bottom or on the sides of the vial are dissolved. Allow two hours at 4 °C with periodic mixing for full rehydration. Centrifuge vial for a few seconds to collect the HA solution at the bottom of the tube.
Molecular Mass – see above
Protein Content – < 0.1%
Endotoxin Level – < 0.1 EU/mg

*Please see Certificate of Analysis for lot specific information

Background:
Hyaluronic acid (HA) is a high molecular weight anionic polysaccharide (1,000-10,000 kD) composed of repeating disaccharides and is one of several glycosaminoglycan components of the extracellular matrix of connective tissue. Free HA is taken up by the liver where it is degraded and recycled. Data indicates a relationship between HA levels, local inflammation and severity of many disease such as hepatitis B or C, rheumatoid arthritis, liver fibrosis, etc.

Data: Agarose Gel



Select-HA™ (lane 2) and Select-HA Ladder™ (lane 1 & 5) shows tight bands in agarose gel while other commercial HA (lane 3 & 4) have much greater size heterogeneity and run as a smear.

References:

1. Jing, W.; DeAngelis, P. L. (2004) Synchronized chemoenzymatic synthesis of monodisperse hyaluronan polymers. J Biol Chem, 279 (40), 42345-9.

Related Products:

Product	Catalog Number
Compounds	
BODIPY-HA	H-025F, H-250F, H-700F
Texas Red-HA	H-025R, H-250R, H-700R
Biotinylated Select-HA™	HYA-B50-200, HYA-B250-200, HYA-B500-200, HYA-B1000-200
Select-HA Ladder™	HYA-HILAD-20, HYA-LOLAD-20
nanoHA™	HYA-NANO5-1
HAase Inhibitor	B-0601
HA Binding Proteins	
Versican G1 Domain	G-HA01, G-HA02
Assays	
HA Quantification ELISAs	K-1200, K-4800
Hyaluronidase Activity ELISA	K-6000

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