

# Echelon Biosciences Inc.

## Select-HA LADDERS™



Product Name	Catalog Number	Molecular Mass
Select-HA™ HiLadder	HYA-HILAD-20	500 kDa – 1500 kDa*
Select-HA™ LoLadder	HYA-LOLAD-20	30 kDa – 500 kDa*

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### 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<sup>1</sup>. Each Select-HA Ladder™ contains 5 Select-HA™ molecular mass markers. Select-HA Ladder™ is a trademark of Hyalose LLC.

### Properties:

**Size** – 20 lanes. Each vial contains total 25 µg of five corresponding Select-HA™

**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** – Centrifuge the tube for a few seconds to collect the Select-HA™ solids in the bottom of the tube. Carefully open and add 100 µL of sterile water directly to the bottom of the tube. Allow two hours at 4 °C for sample rehydration and then mix well before use.

**Molecular Mass** – see above

**Appearance** – Clear solid

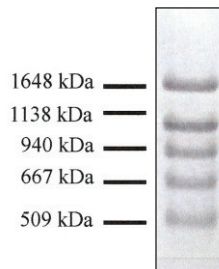
**Solubility** – water

\*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



Electrophoresis of 5 µL of reconstituted Select-HA Ladder™ using a standard gel loading buffer on an agarose gel (0.6 – 1%) results in clearly defined bands when stained with 0.005% Stains-all (in 50% ethanol)<sup>2</sup>. Please see Certificate of Analysis for lot specific ladder M.W.

### References:

1. Jing, W.; DeAngelis, P. L. (2004) Synchronized chemoenzymatic synthesis of monodisperse hyaluronan polymers. *J Biol Chem*, 279 (40), 42345-9.
2. DeAngelis, P. L.; Jing, W.; Drake, R. R.; Achyuthan, A. M. (1998) Identification and molecular cloning of a unique hyaluronan synthase from *Pasteurella multocida*. *J Biol Chem*, 273 (14), 8454-8.
3. Lee, H. G.; Cowman, M. K. (1994) An agarose gel electrophoretic method for analysis of hyaluronan molecular weight distribution. *Anal Biochem*, 219 (2), 278-87.

### Related Products:

Product	Catalog Number
<b>Compounds</b>	
BODIPY-HA	H-025F, H-250F, H-700F
Texas Red-HA	H-025R, H-250R, H-700R
Select-HA™	HYA-50kEF-1, HYA-500kEF-1, HYA-601kEF-1, HYA-1000kEF-1
Biotinylated Select-HA™	HYA-B50-200, HYA-B250-200, HYA-B500-200, HYA-B1000-200
nanoHA™	HYA-NAN05-1
HAase Inhibitor	B-0601
<b>HA Binding Proteins</b>	
Versican G1 Domain	G-HA01, G-HA02
<b>Assays</b>	
HA Quantification ELISAs	K-1200, K-4800
Hyaluronidase Activity ELISA	K-6000

Technical Data Sheet Rev. 1, 01-14-19 - For research use only. Not intended or approved for diagnostic or therapeutic use.



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