

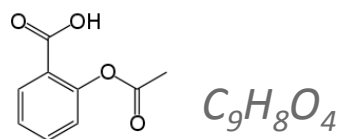
Comparison of Molecular Structure of Therapeutic Agents

Therapeutic Agent

Molecular Structure

Molecular Weight

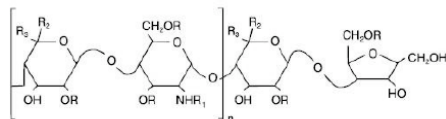
Acetylsalicylic Acid (*Aspirin*)



180 Daltons

Low Molecular Weight Heparins

Fragmin

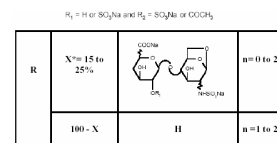
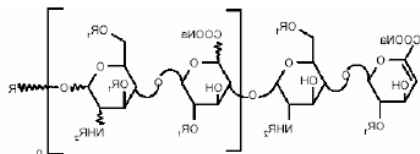


R = H or SO₂Na
 R₁ = COCH₃ or SO₂Na
 R₂ = H R₃ = COONa
 or
 R₂ = COONa R₃ = H

n = 3-20

< 3000 Daltons 3-15%
 3000-8000 Daltons 65-78%
 >8000 Daltons 14-26%

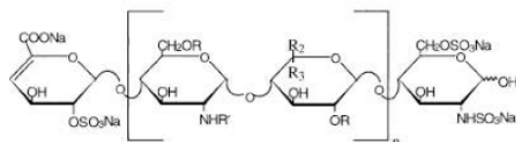
Lovenox



*X = Percent of polysaccharide chain containing 1,8 anhydro derivative on the reducing end.

< 2000 Daltons ≤ 10%
 2000-8000 Daltons > 68%
 >8000 Daltons ≤ 18%

Tinzaparin



n = 1 to 25, R = H or SO₂Na, R' = H or SO₂Na or COCH₃
 R₂ = H and R₃ = COONa or R₂ = COONa and R₃ = H

< 2000 Daltons 10%
 2000-8000 Daltons 60-72%
 > 8000 Daltons 22-36%