

BCH3033
Fall 2008

EXAM 4 Key

There were two forms: Question 1 was either Chondroitin or Hyaluronic acid.

1. Check the structures in the book.
2. Chond 79 non reducing ends, 1 reducing end.
Hyalur 77 non reducing ends, 1 reducing end.
3. Check the structures in the book.
4. Chond: 5' TCGTGGACT 3'
Hyalur: 5' ACTTGCAGA 3'
5. Abscissa should be labeled c_0t (M x sec), Ordinate something related to being all ss to ds. The abscissa should be a log scale. Check the PowerPoint for where the curves should be relative to each other...and that the eukaryotic curve should see the rapidly annealing (repetitive sequences) and slowly annealing (non repetitive sequences).
6. Chond: 1.58×10^{-3} m 788X longer.
Hyalur: 4.1×10^{-3} m 683X longer.
7. both:

	RNA	DNA
sugar	ribose	vs deoxyribose
helix	A	B
G pairs	C+U	C
8. Chond: fragments at 1 and 3 Ntides long
Hyalur: fragments at 2 and 3 Ntides long

Grade Distribution: Average 54 +/- 20.4 High 91, Low 10.