

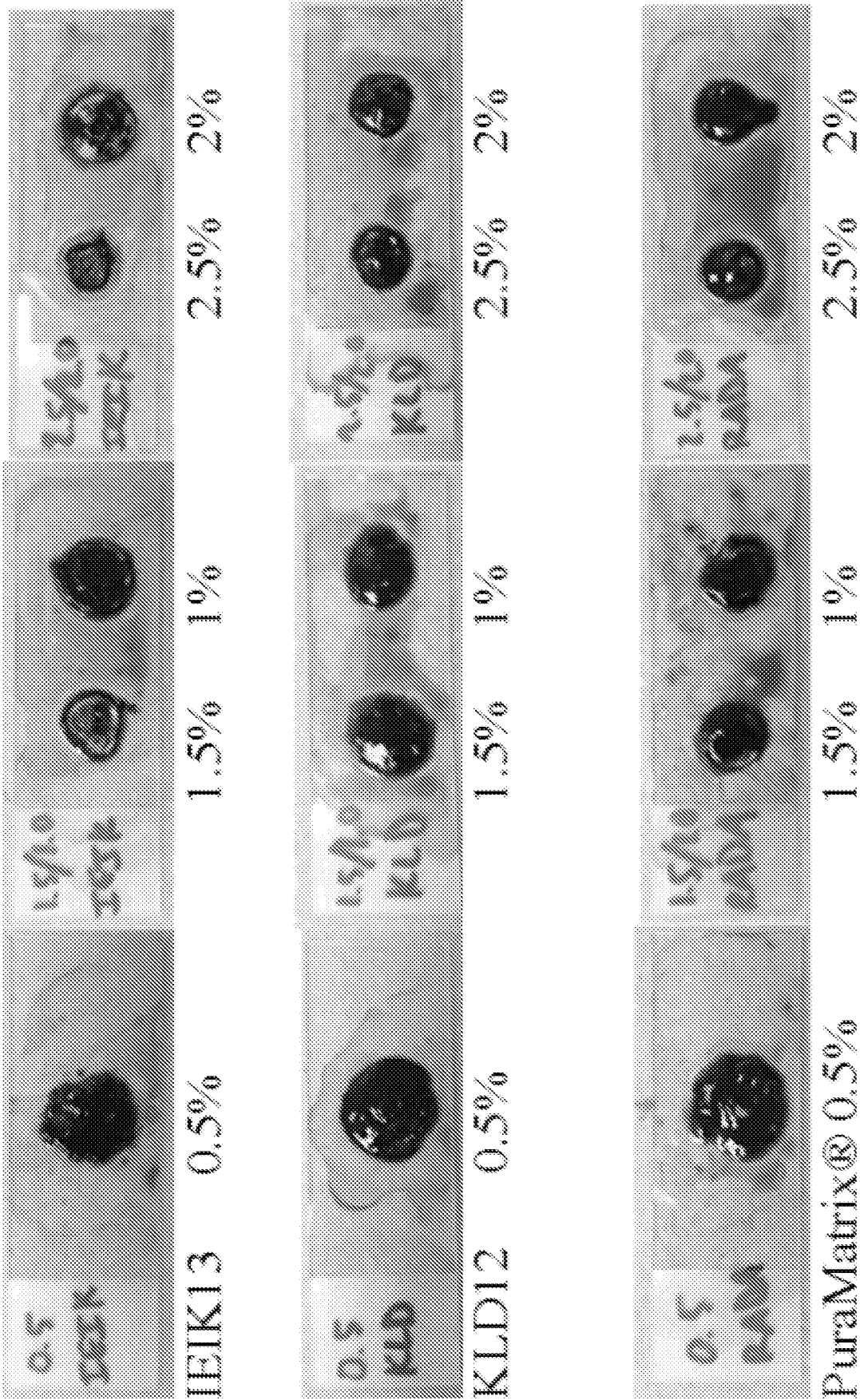
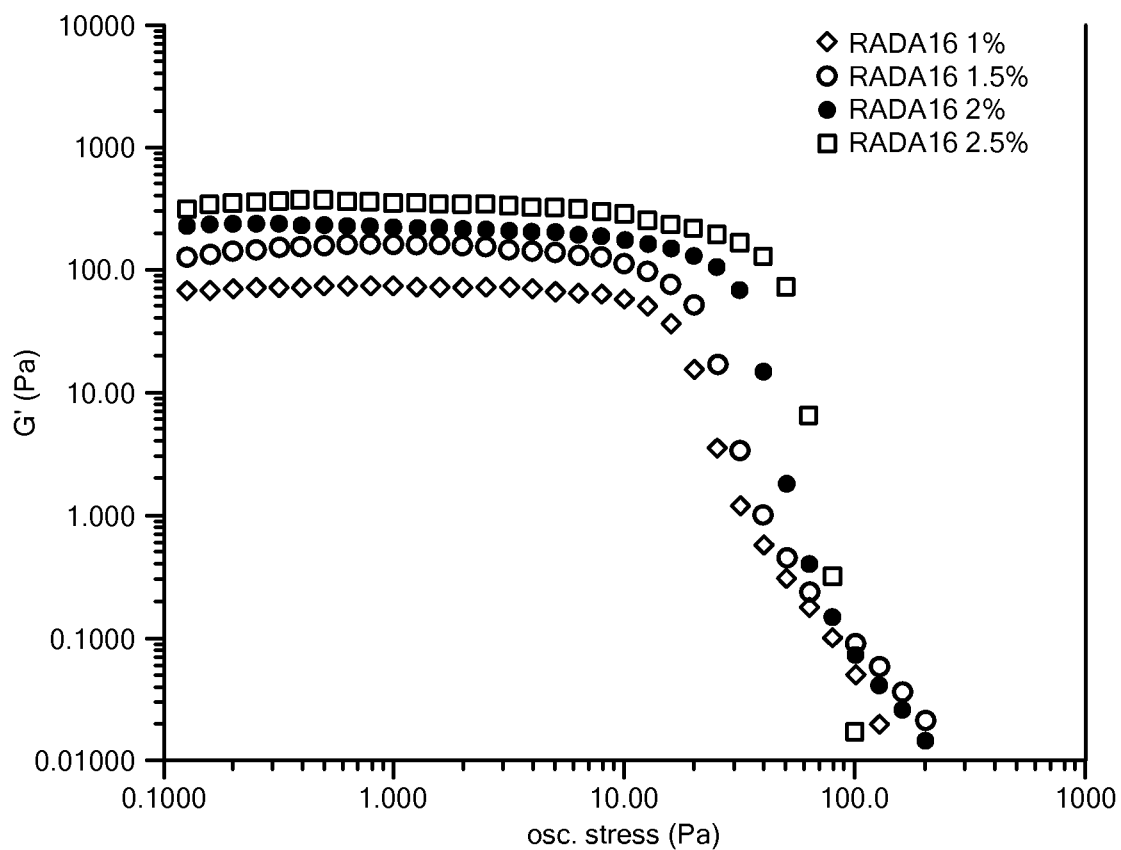
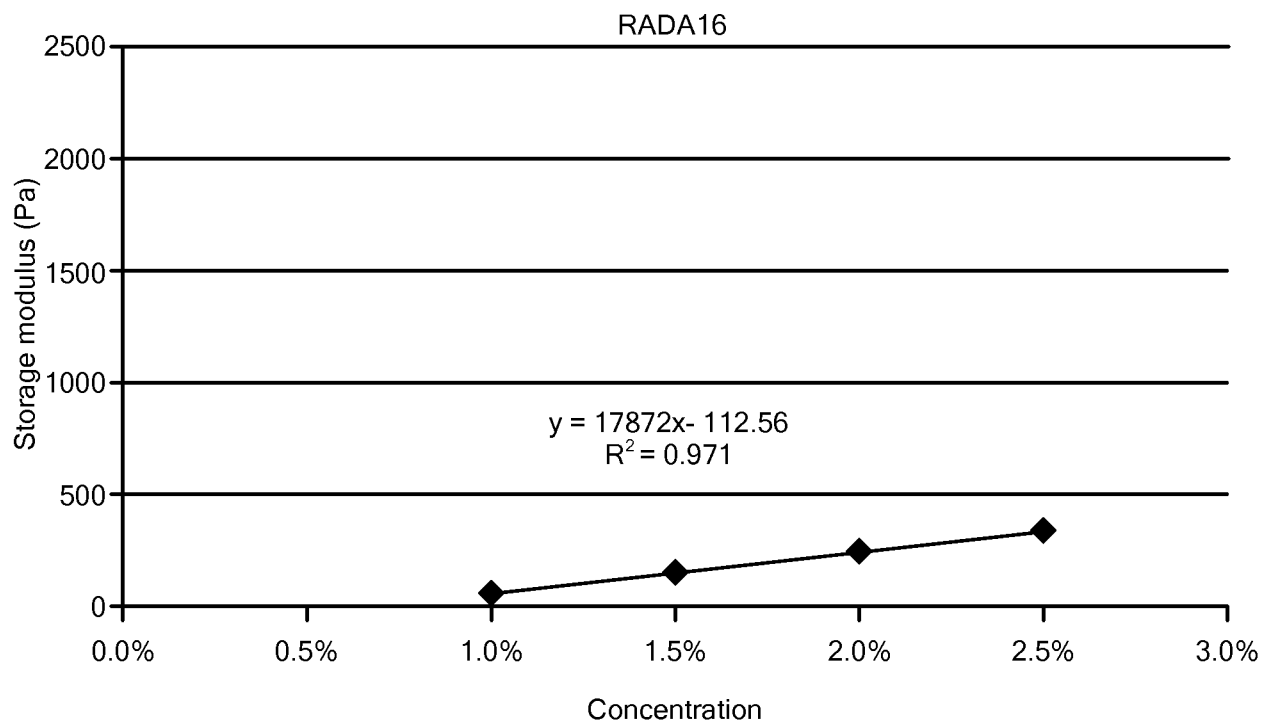
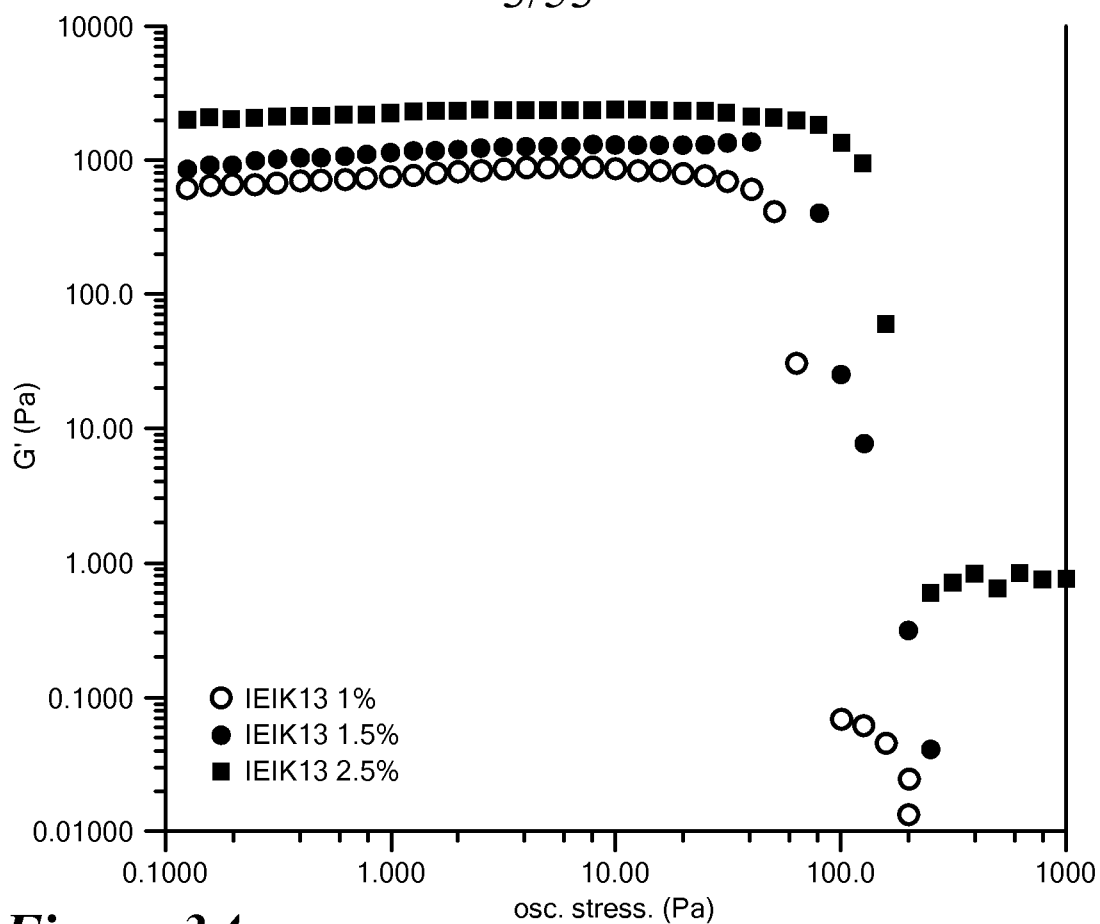
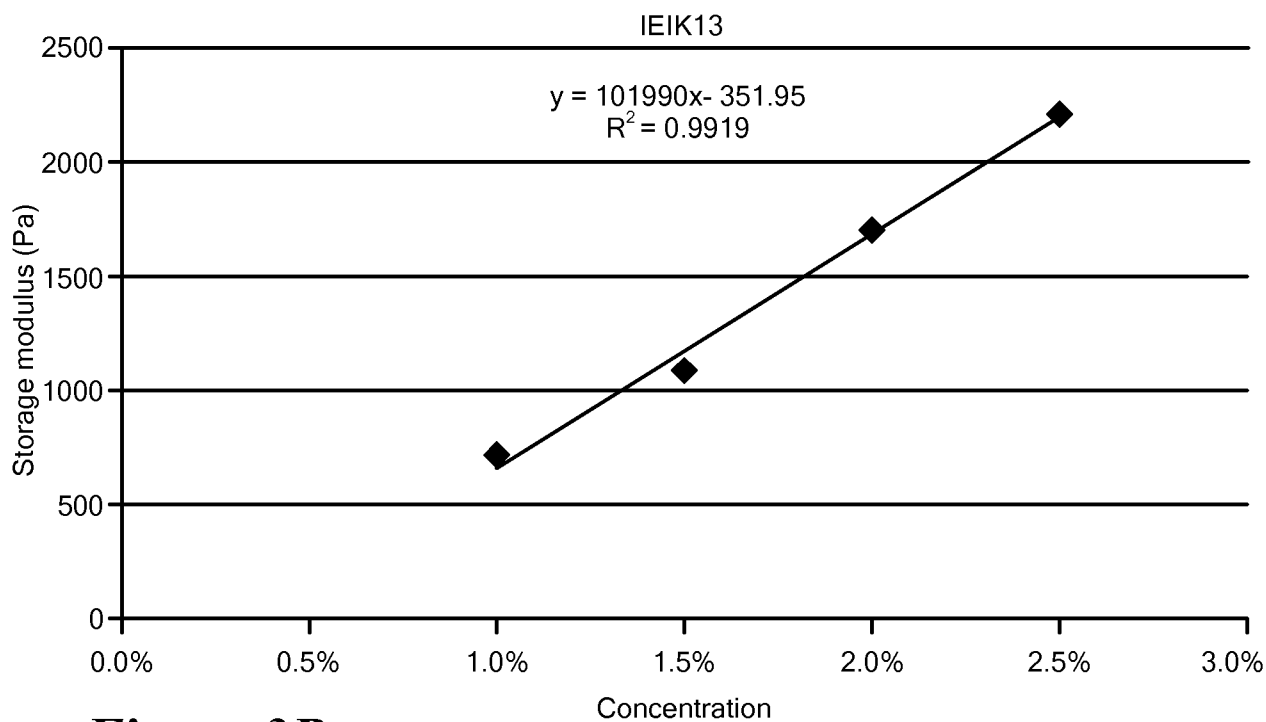


Figure 1

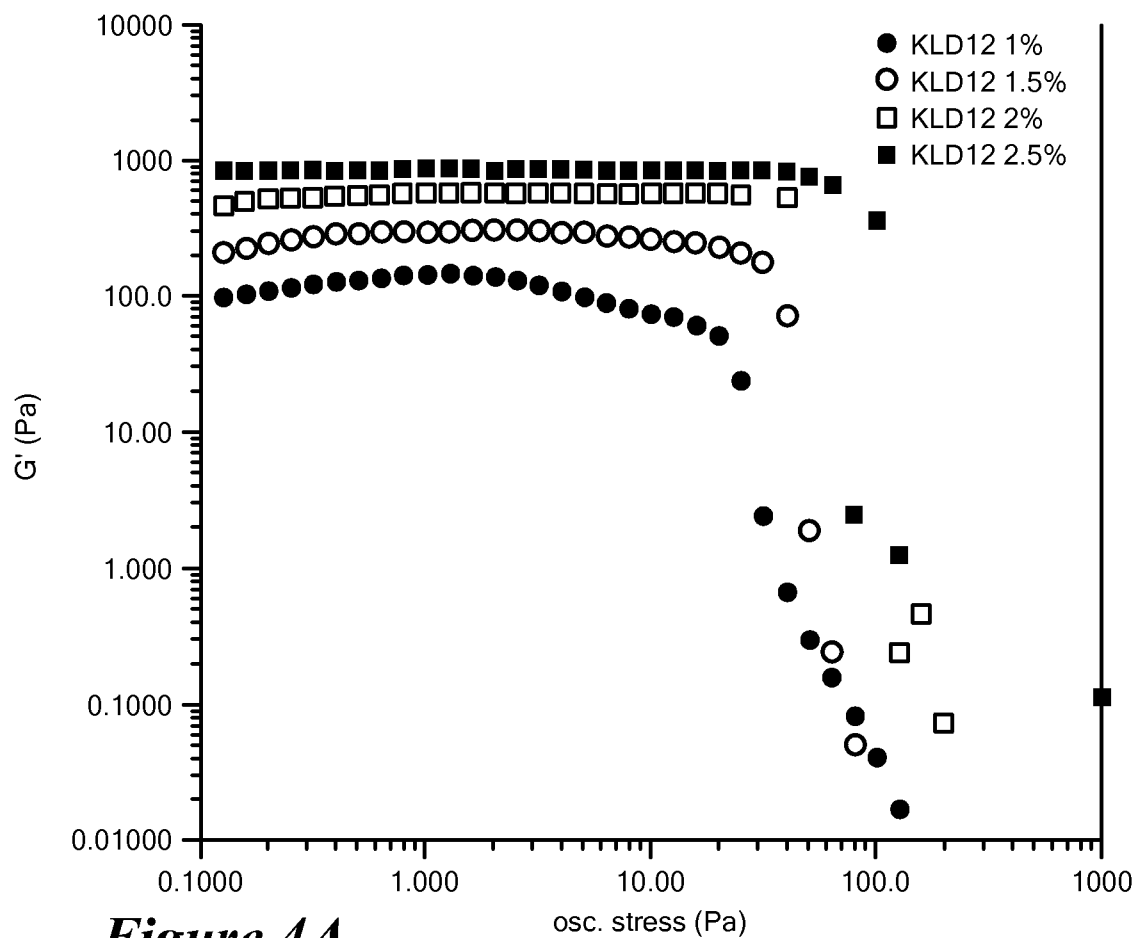
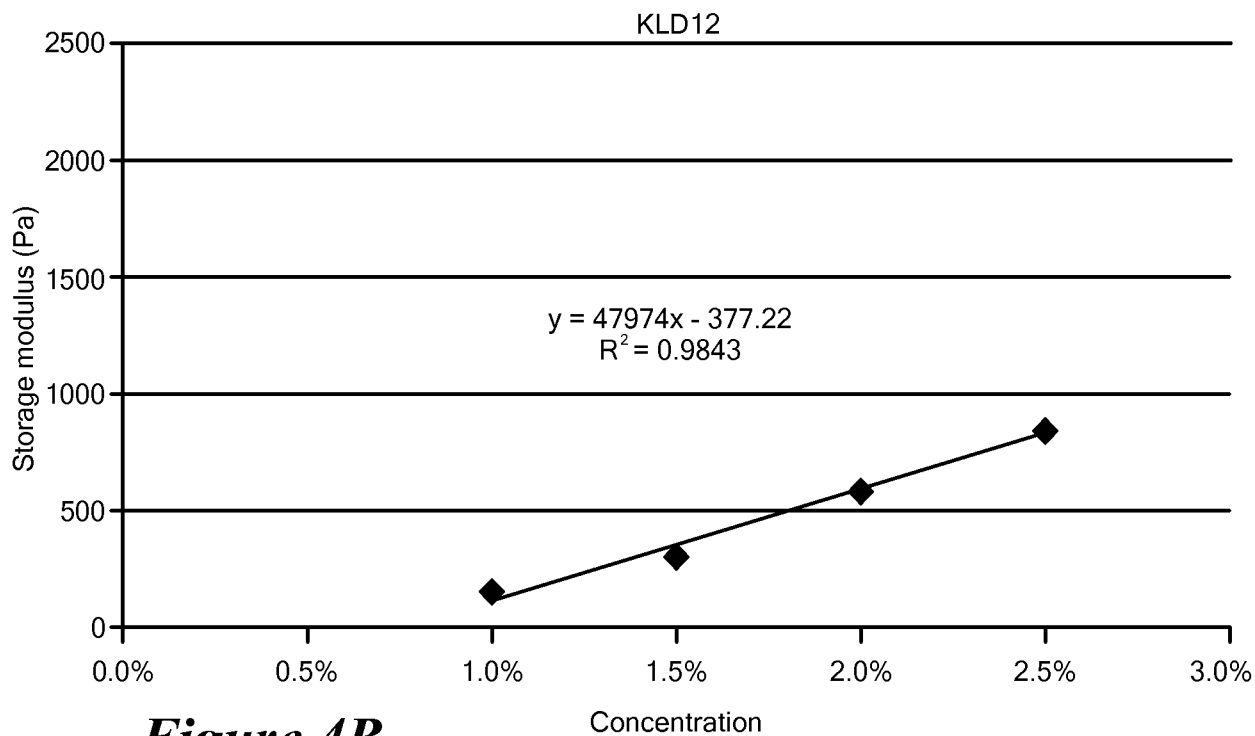
2/53

**Figure 2A****Figure 2B**

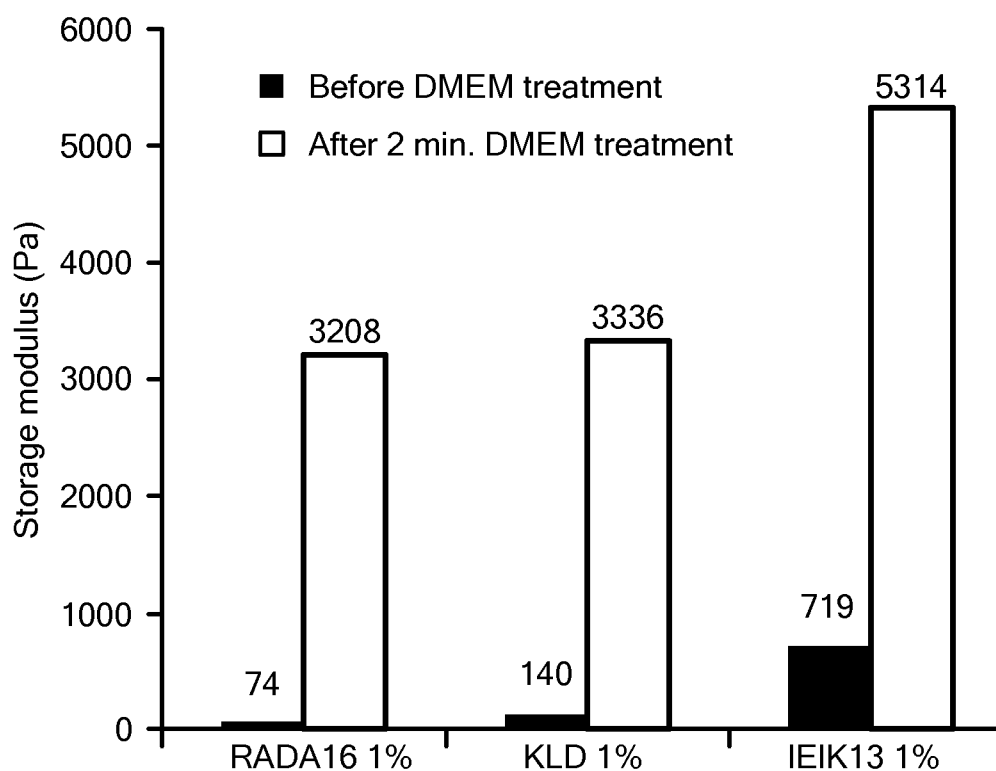
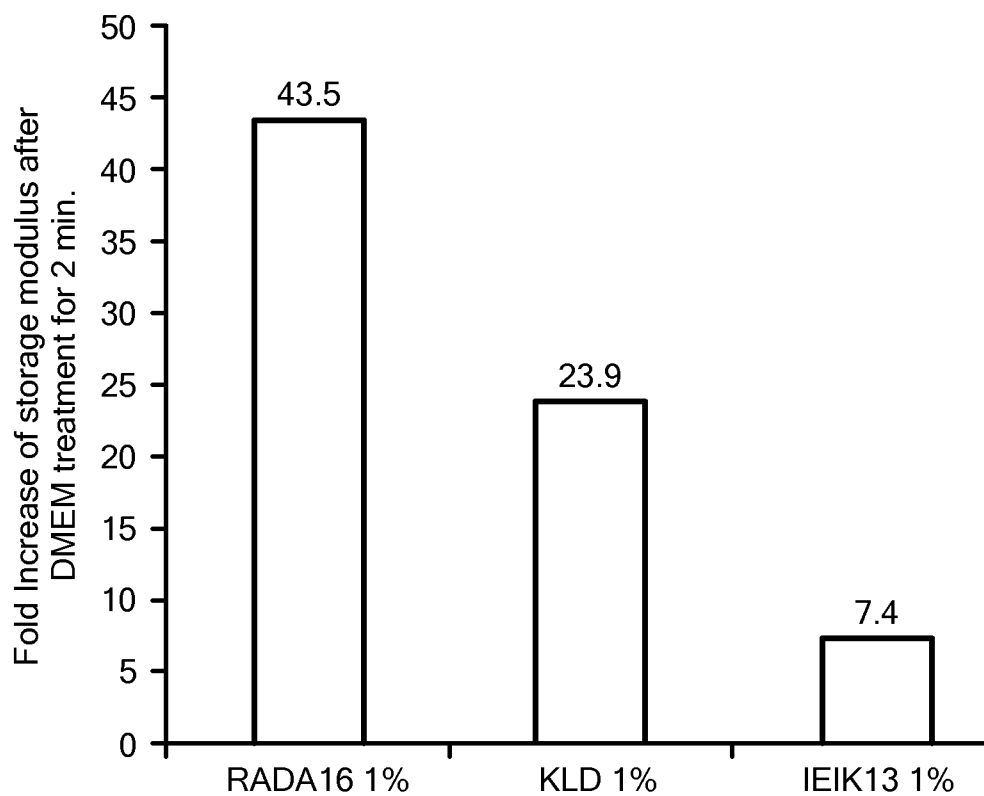
3/53

**Figure 3A****Figure 3B**

4/53

**Figure 4A****Figure 4B**

5/53

*Figure 5A**Figure 5B*

6/53

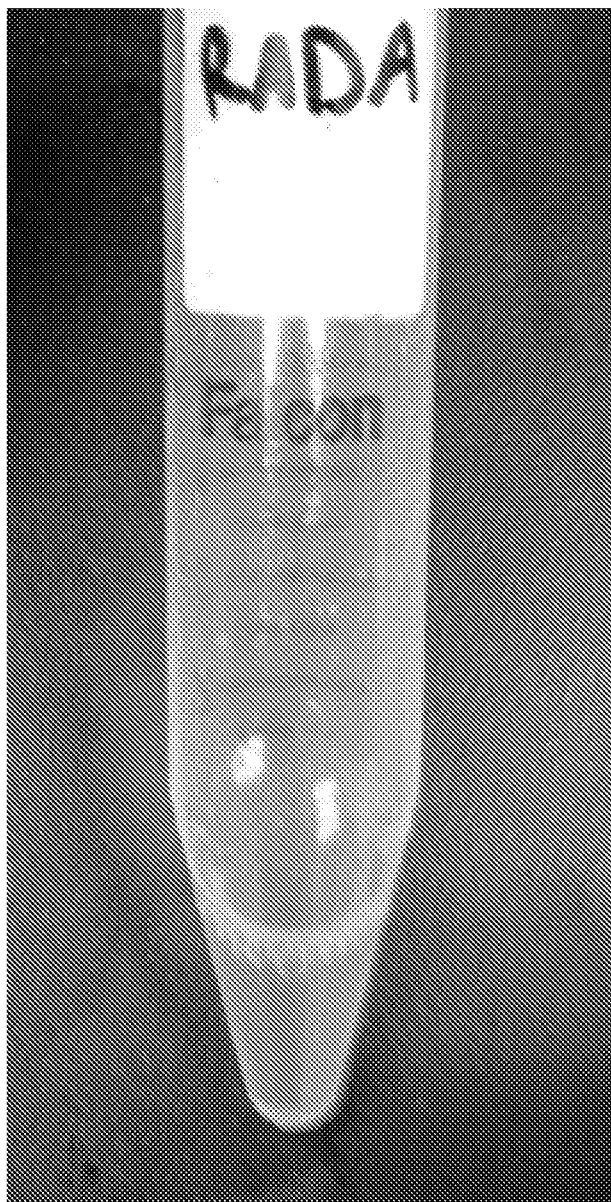


Figure 6A

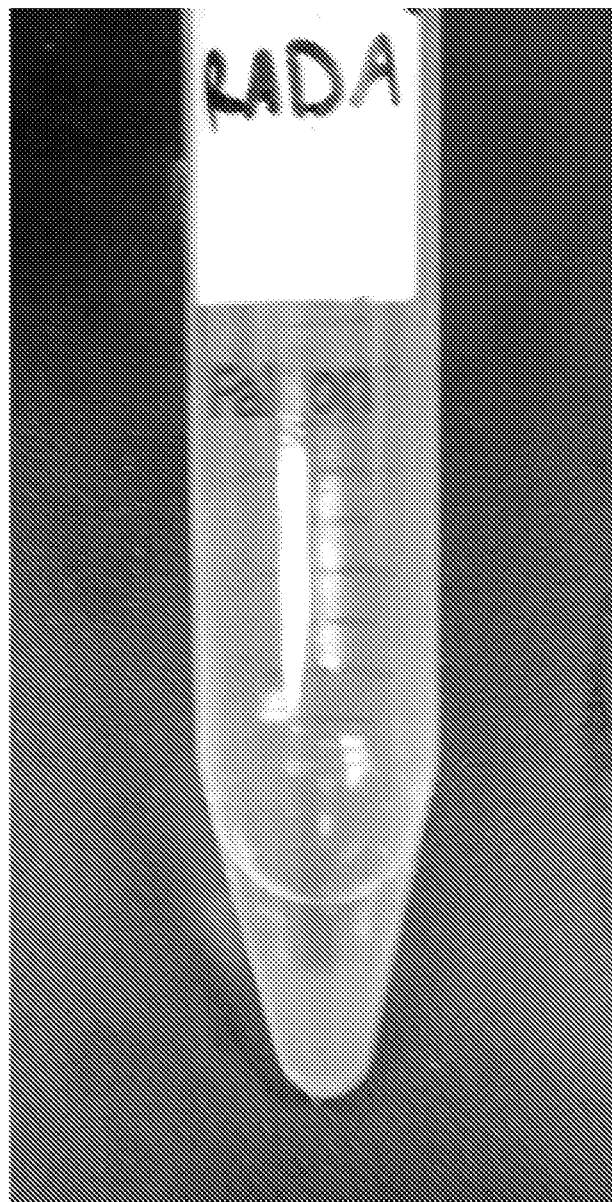


Figure 6B

7/53

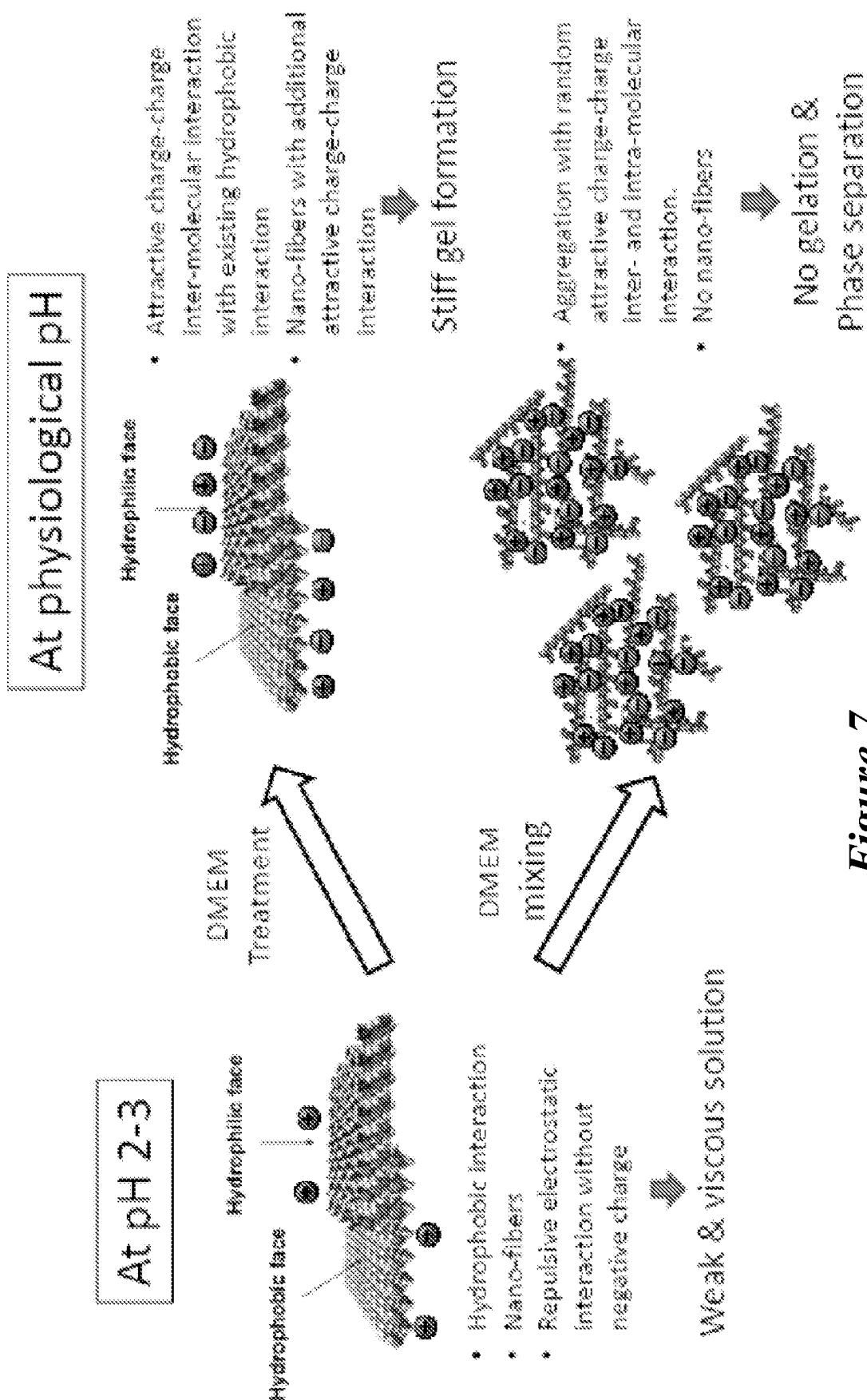
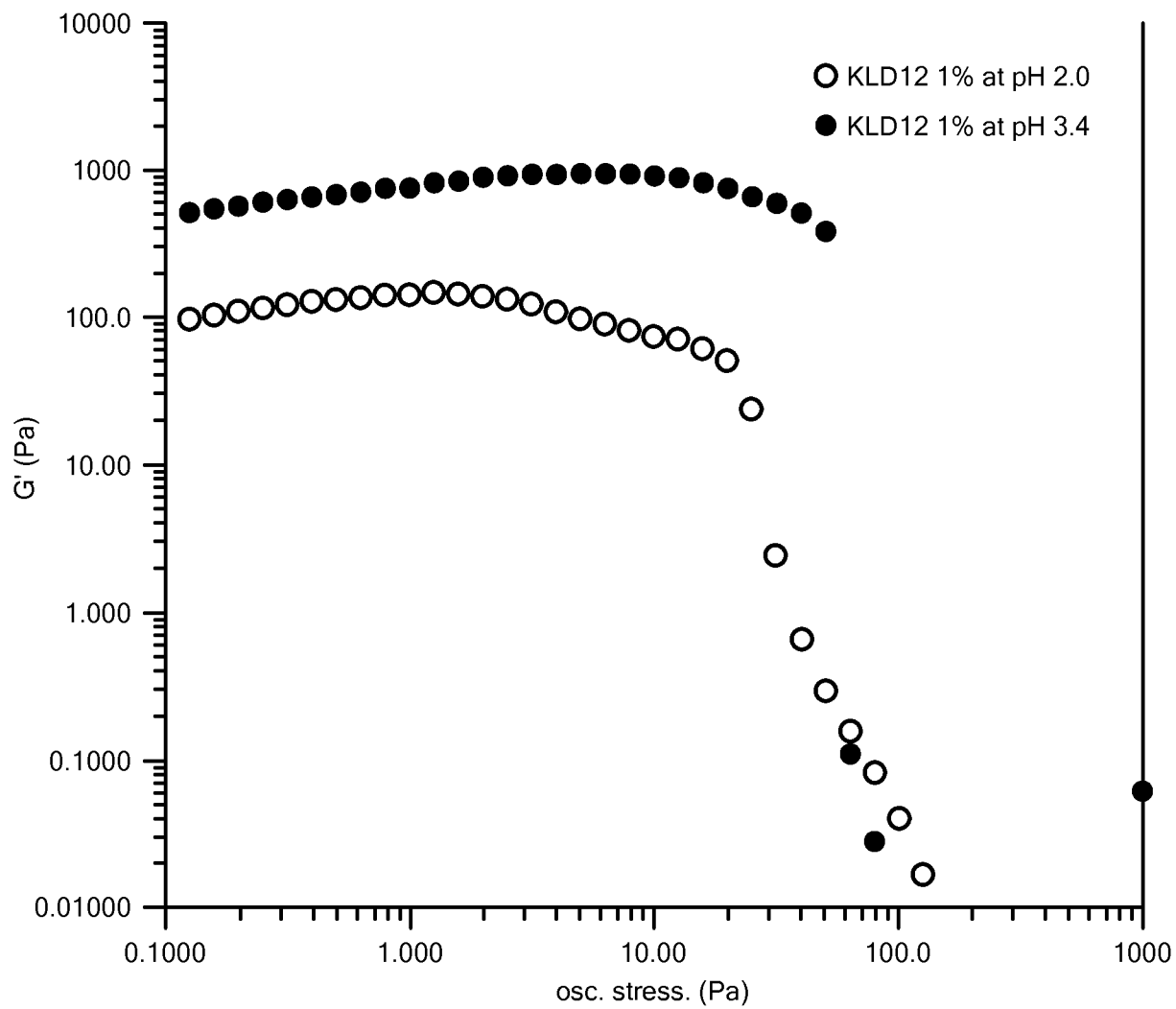
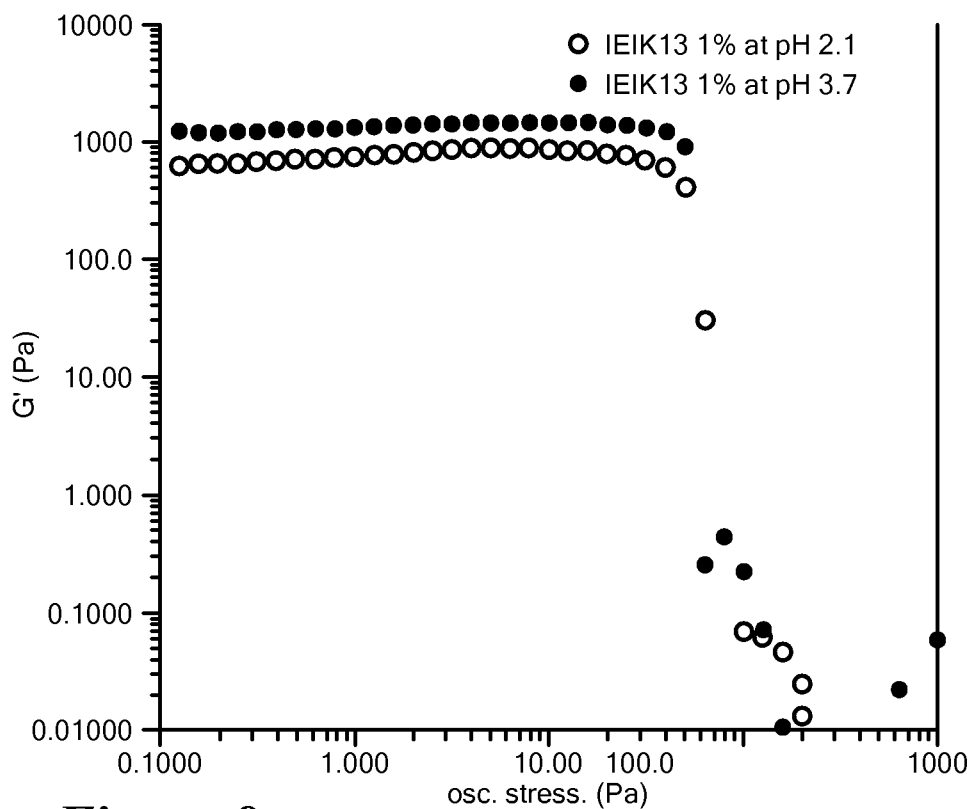
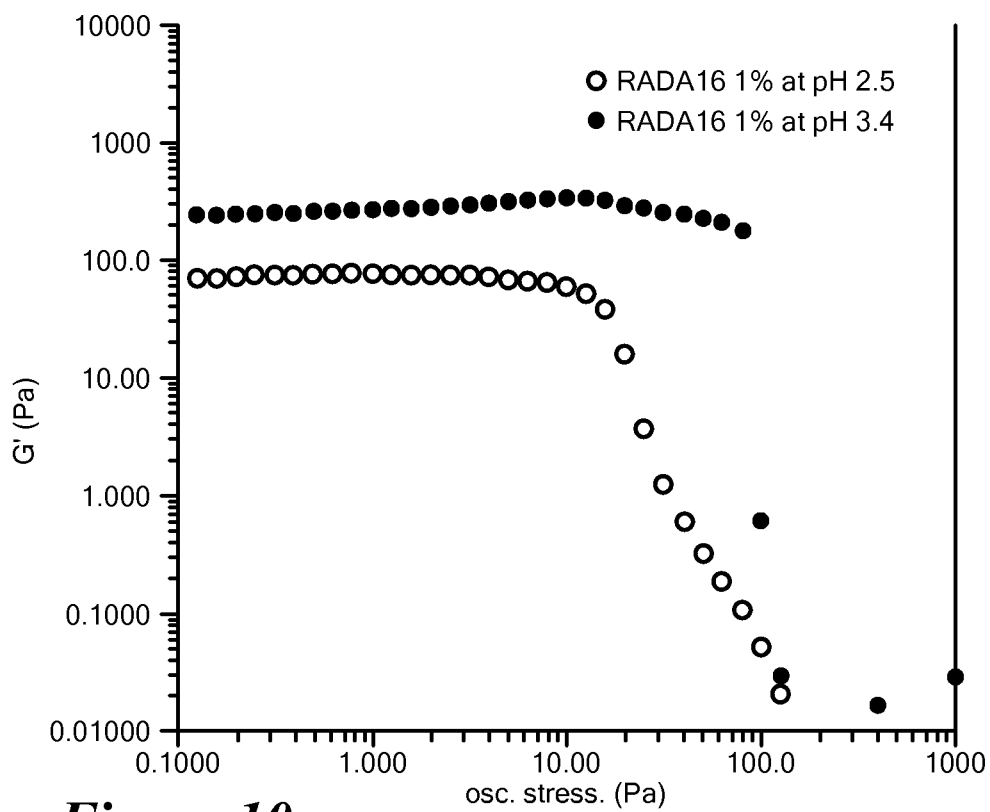


Figure 7

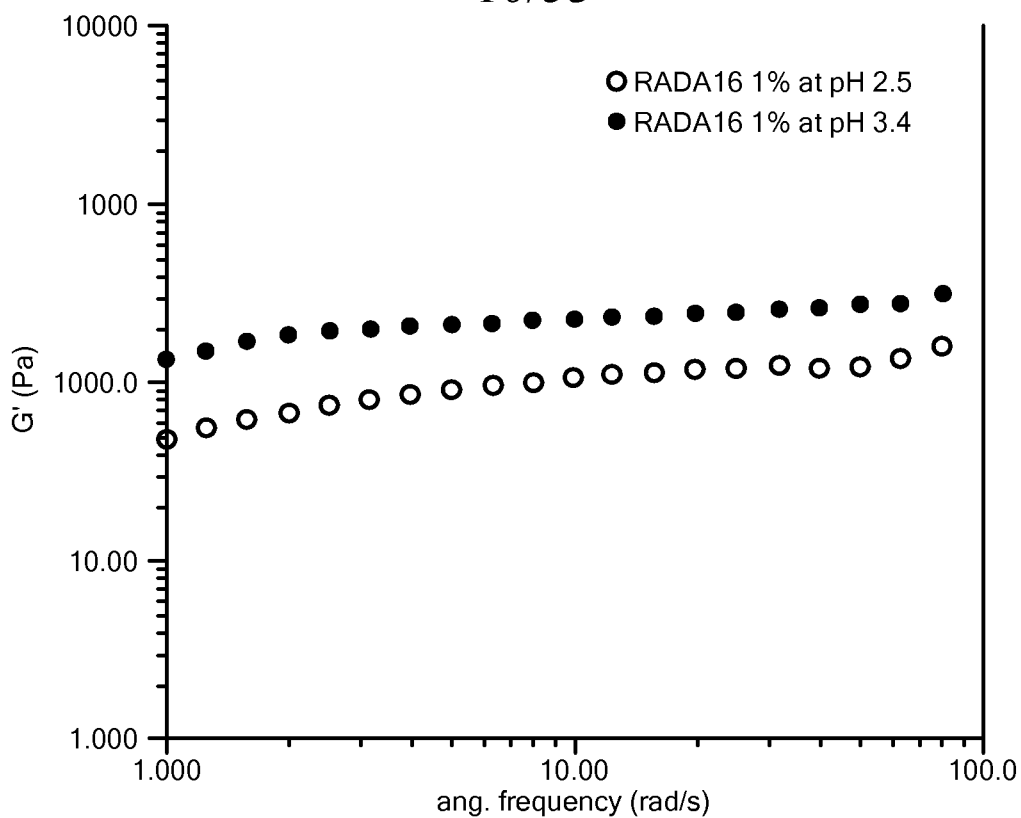
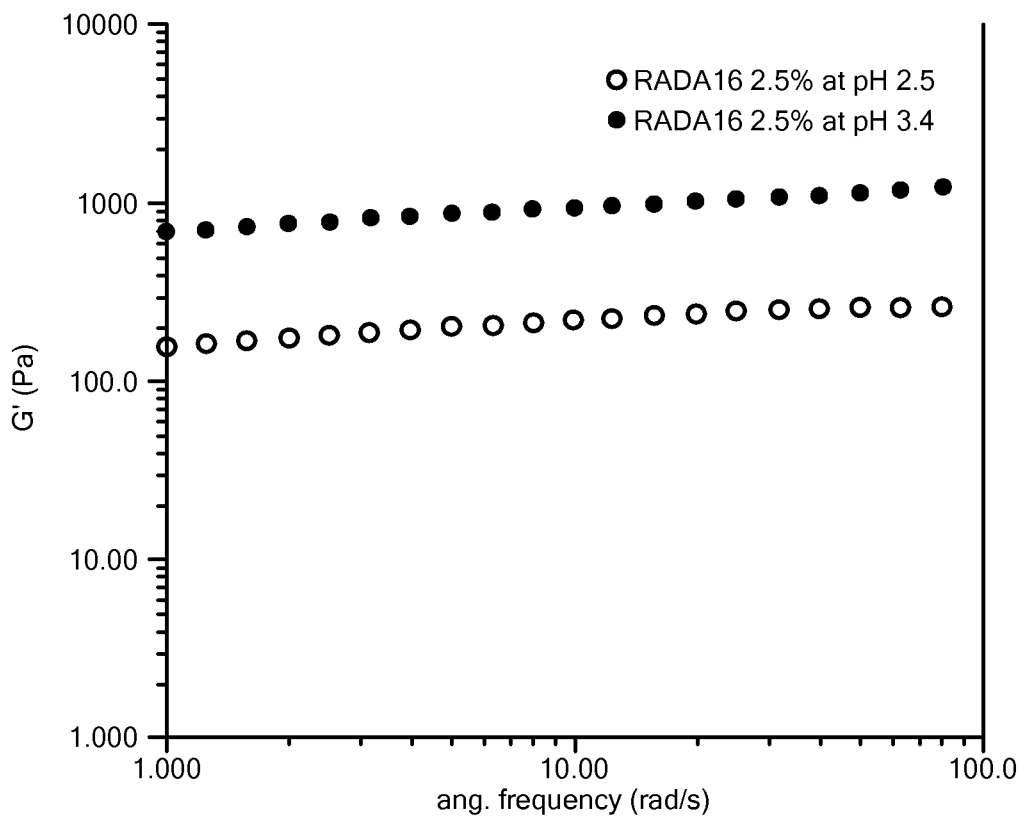
8/53

*Figure 8*

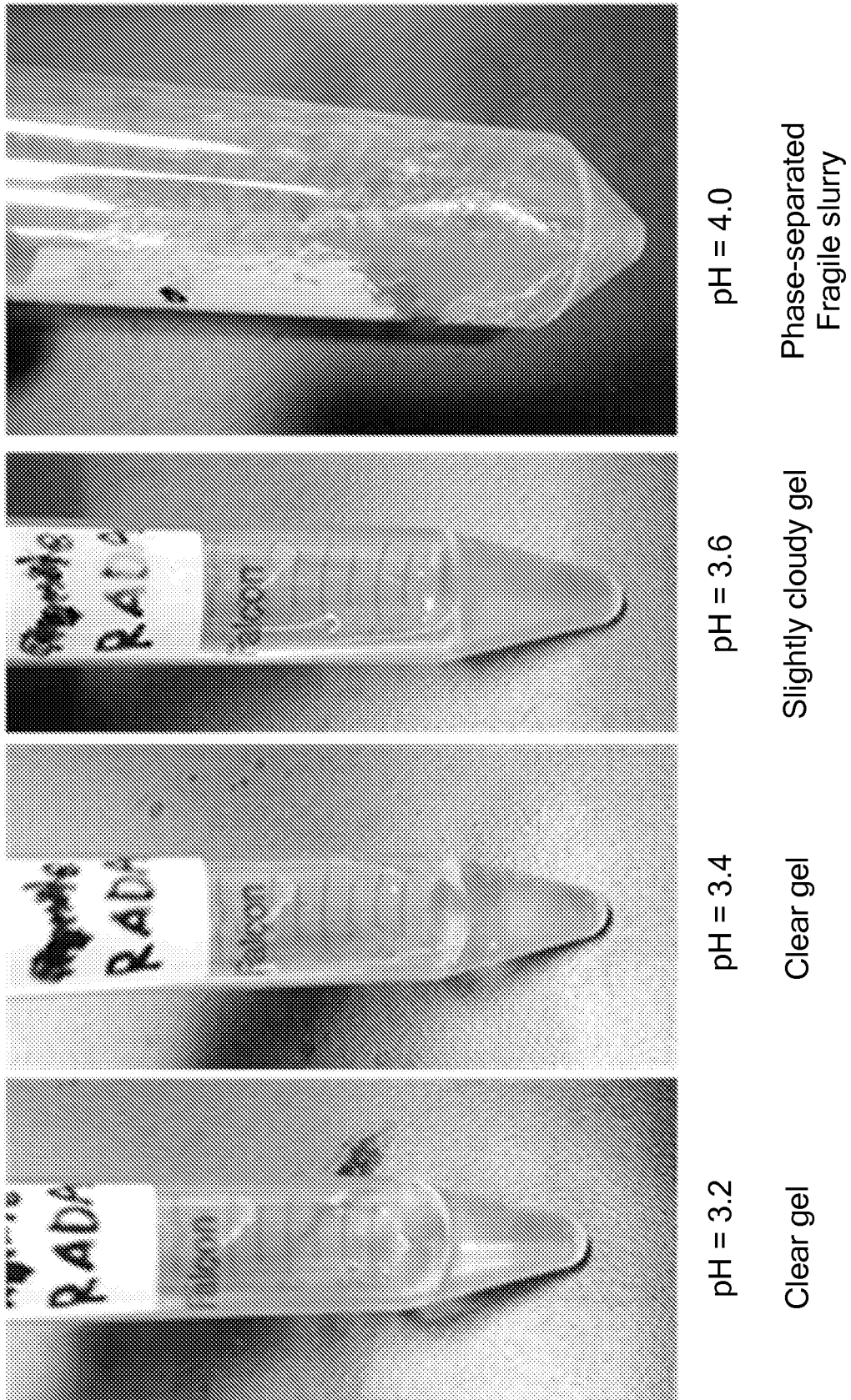
9/53

**Figure 9****Figure 10**

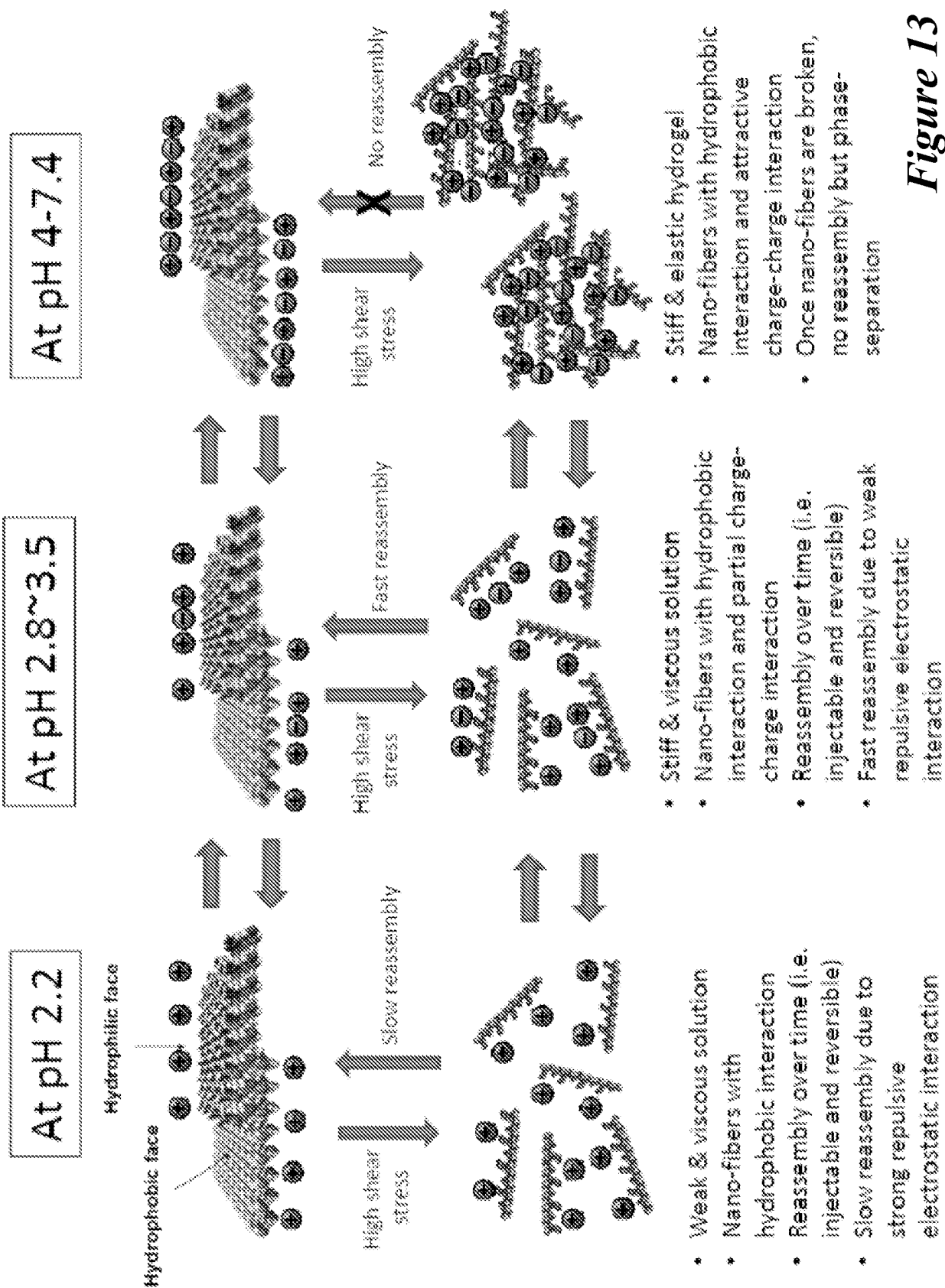
10/53

*Figure 11A**Figure 11B*

11/53

*Figure 12*

12/53

**Figure 13**

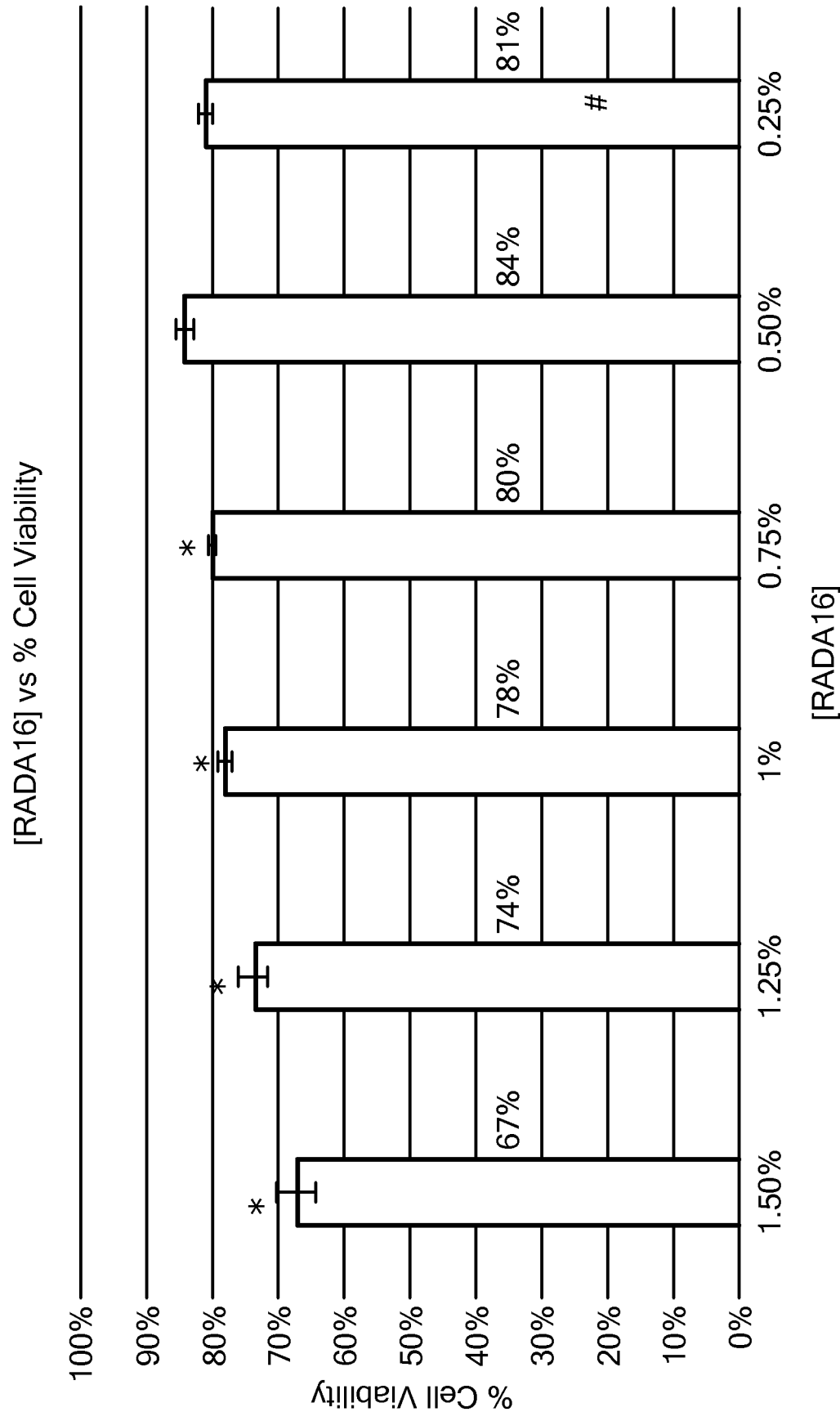


Figure 14

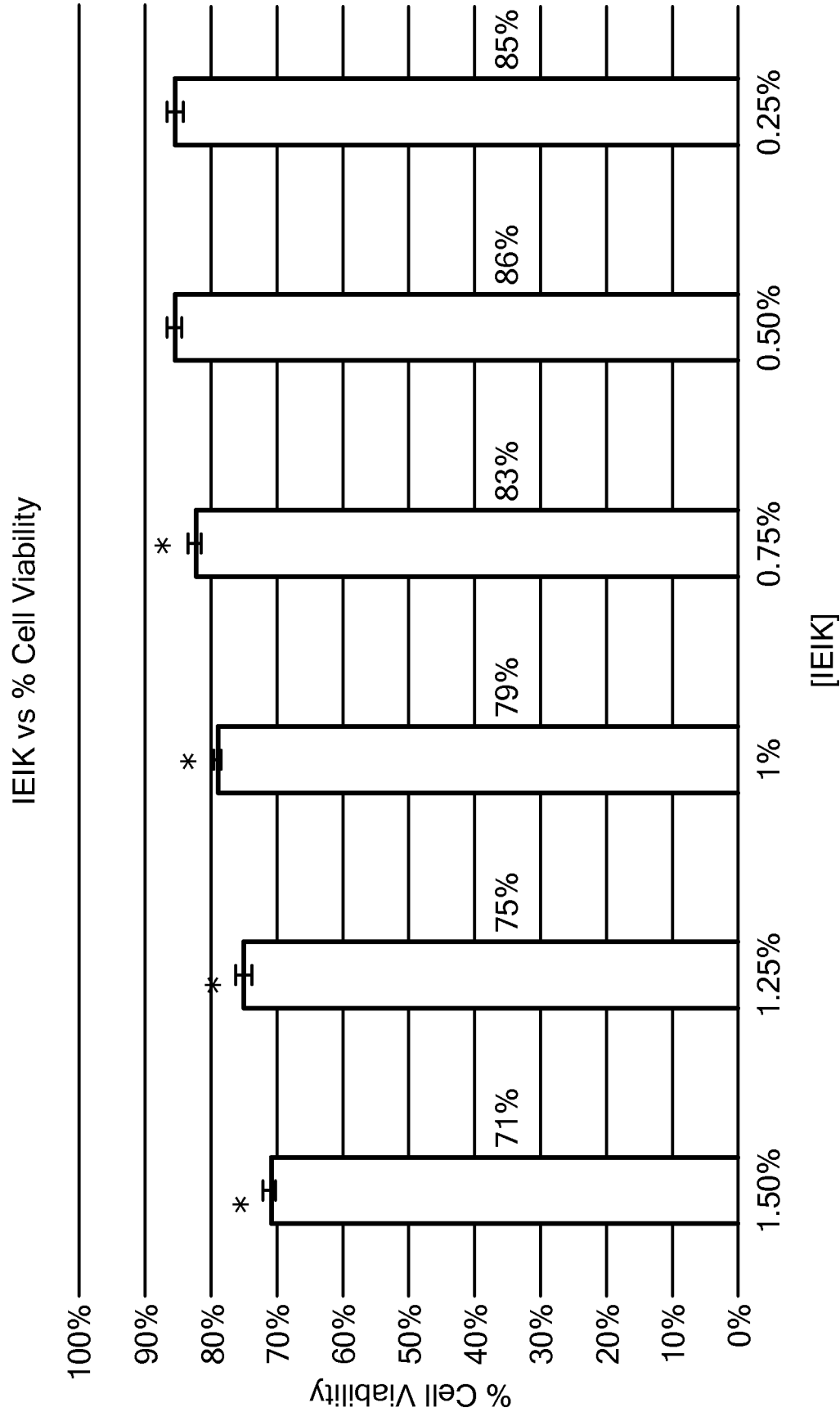


Figure 15

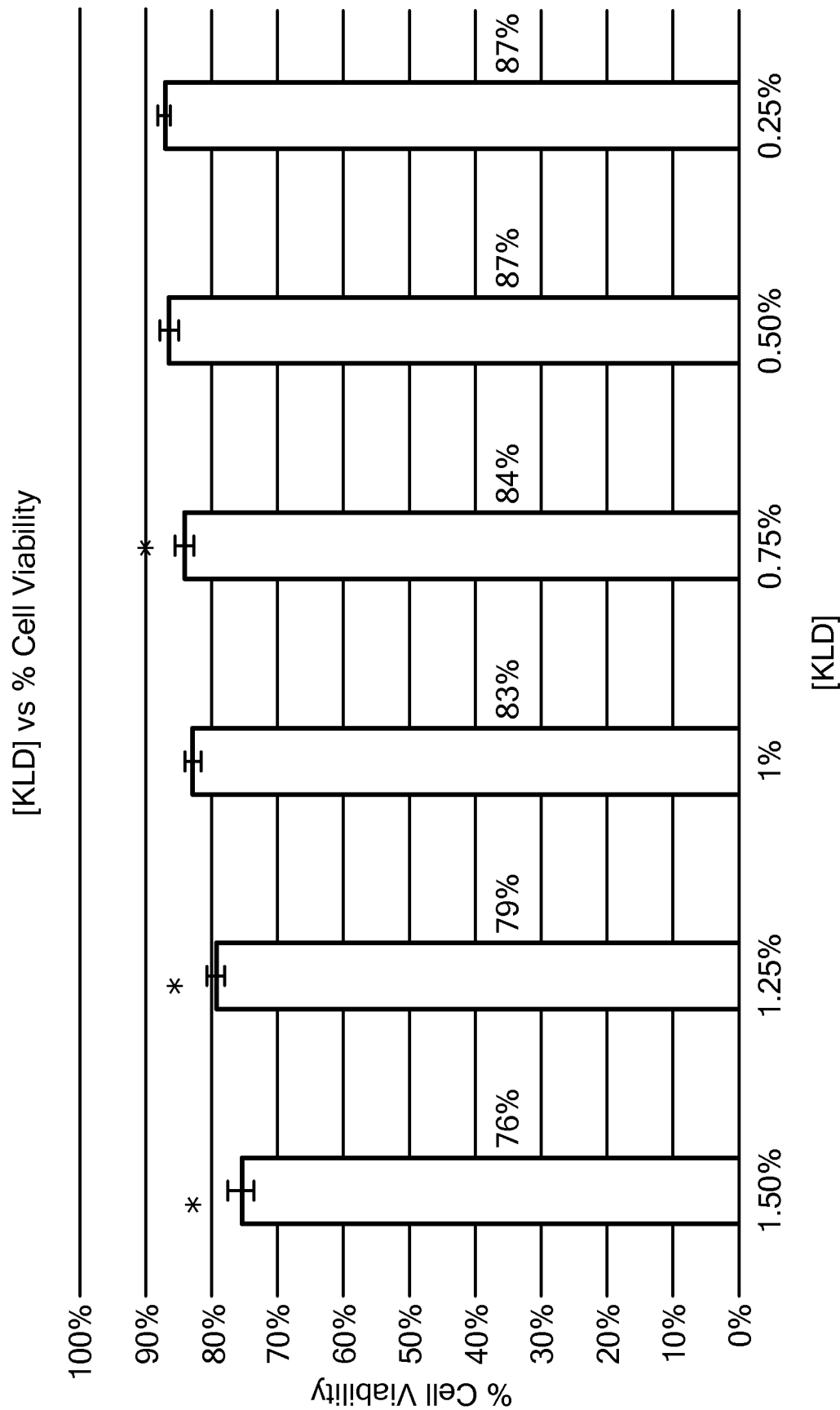


Figure 16

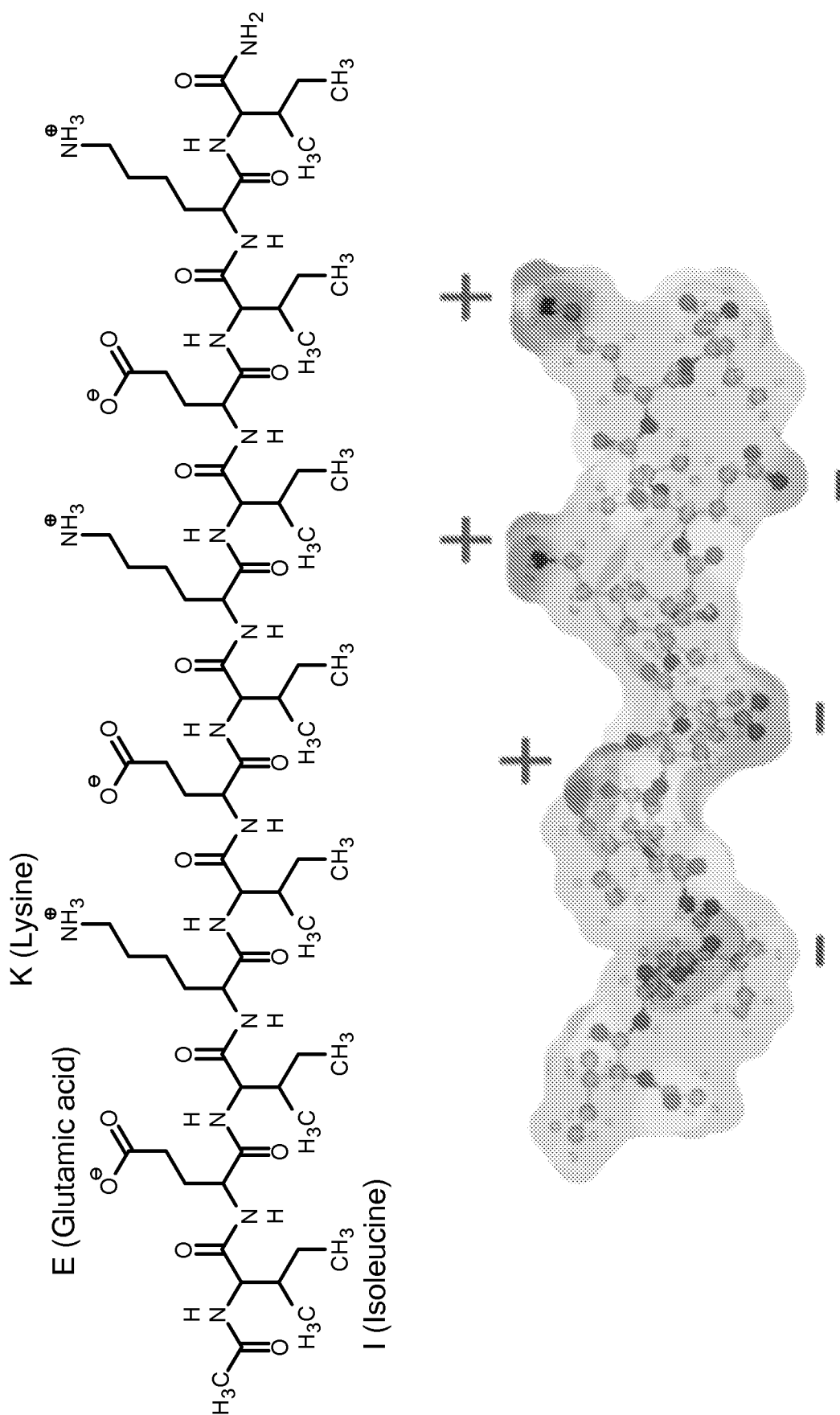
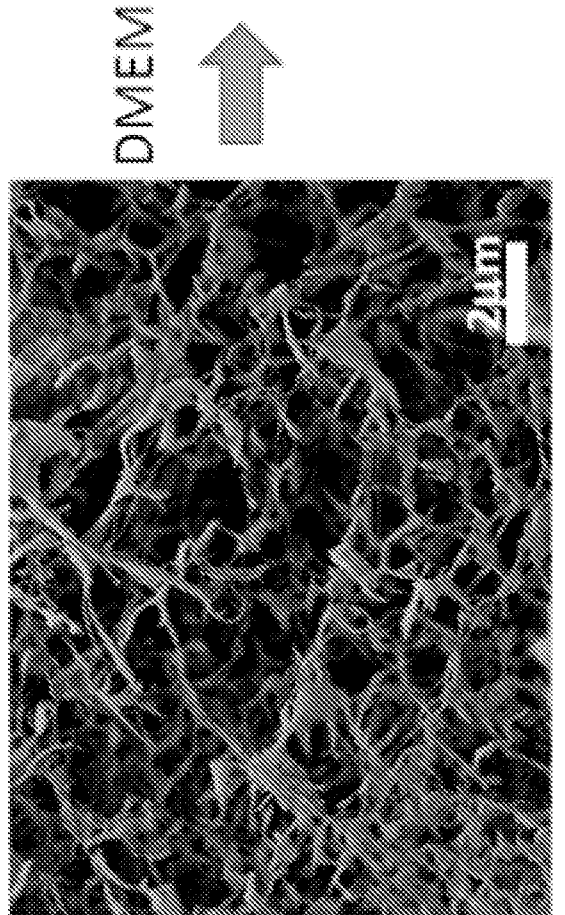
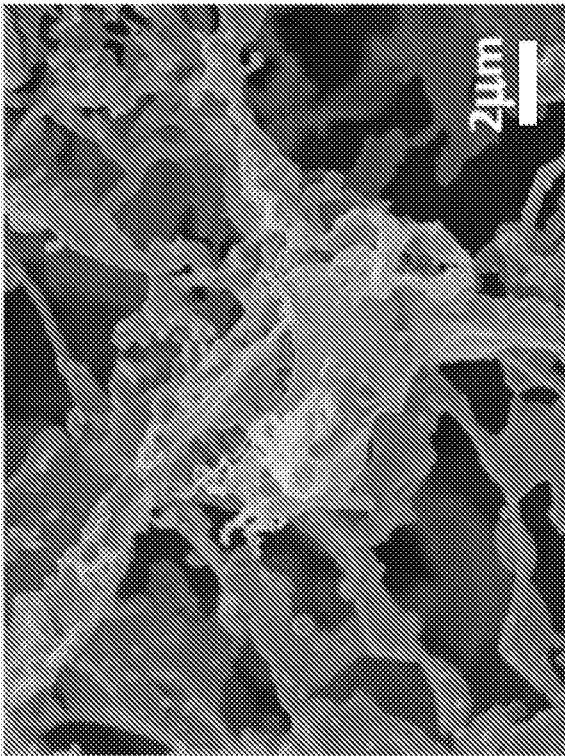


Figure 17A

17/59



DMEM
↑

Figure 17B

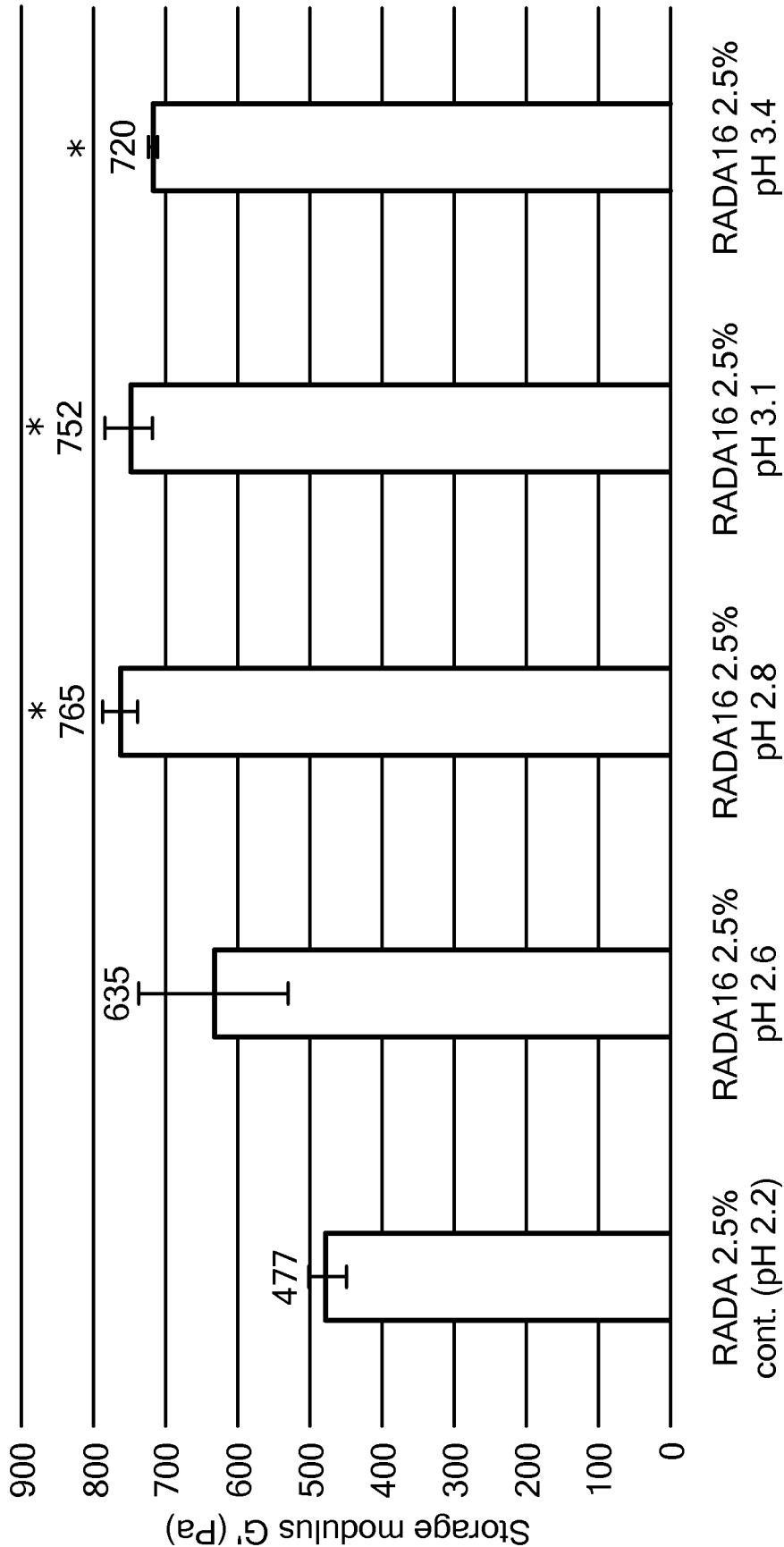


Figure 18

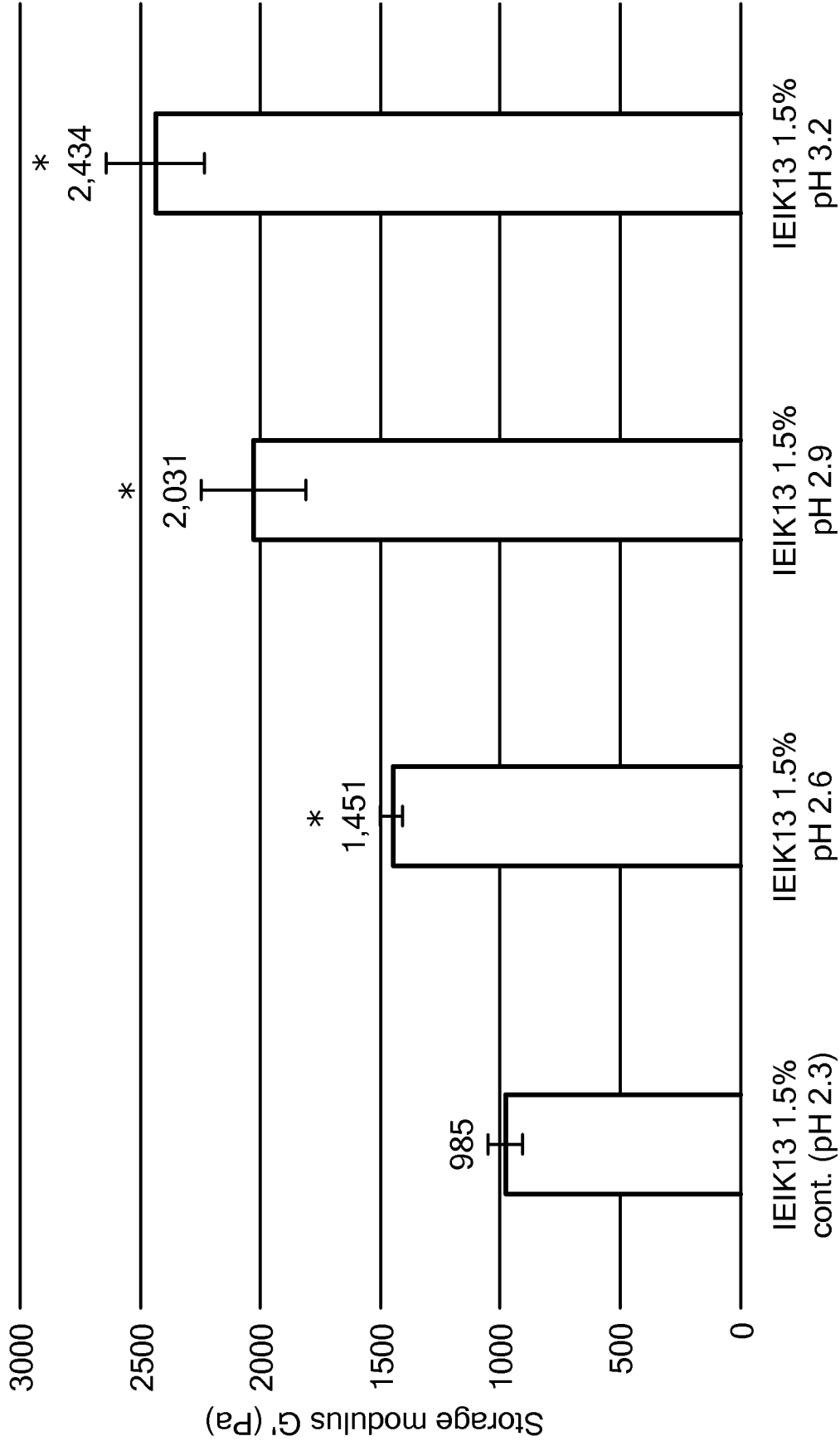


Figure 19

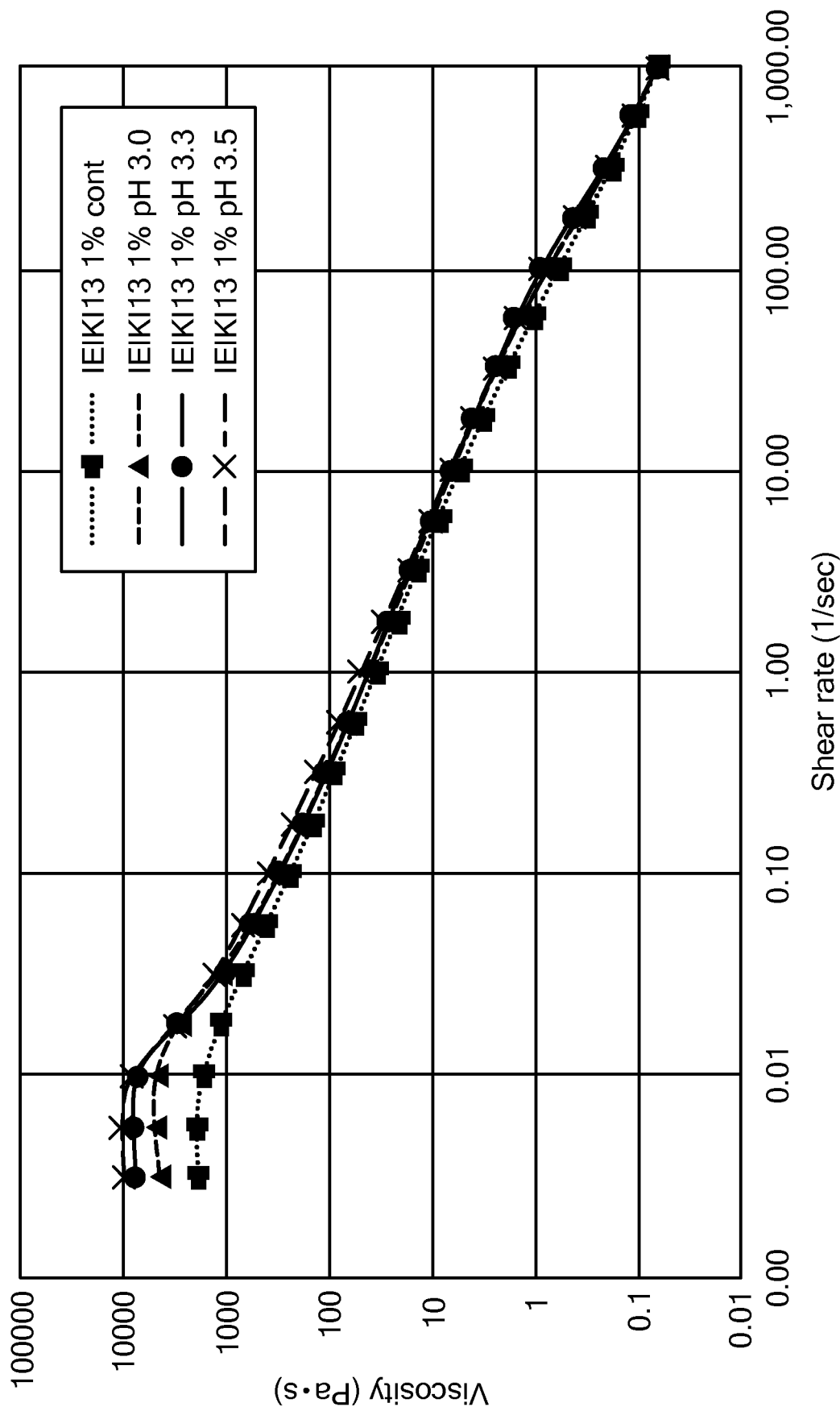


Figure 20A

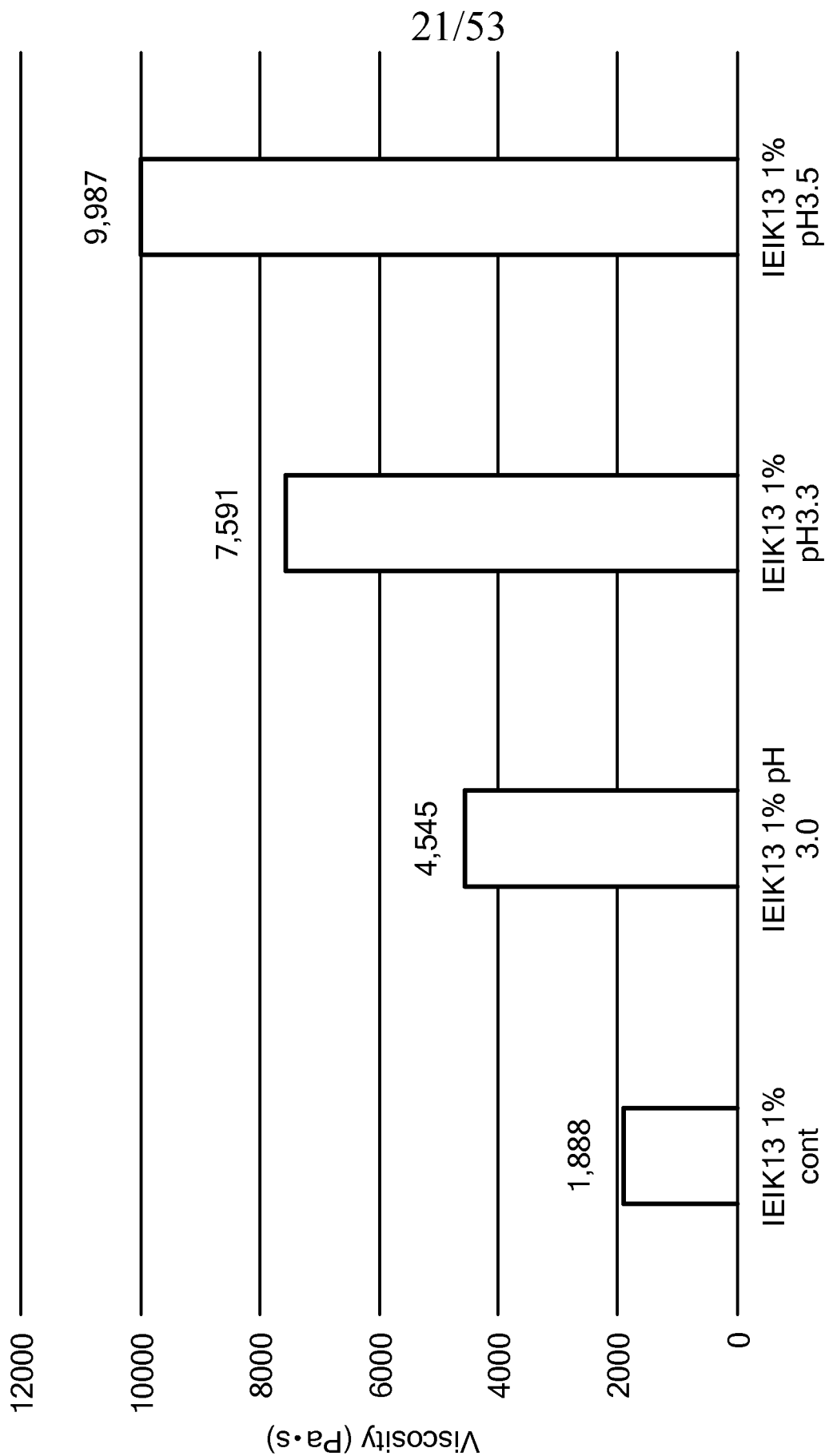
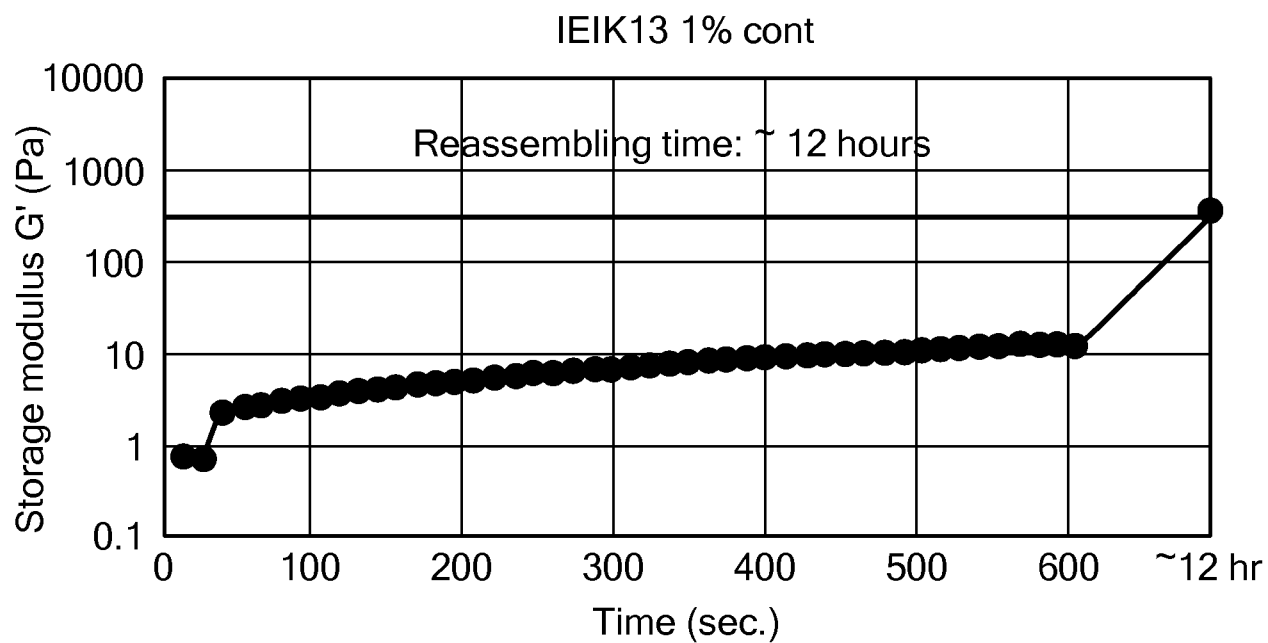
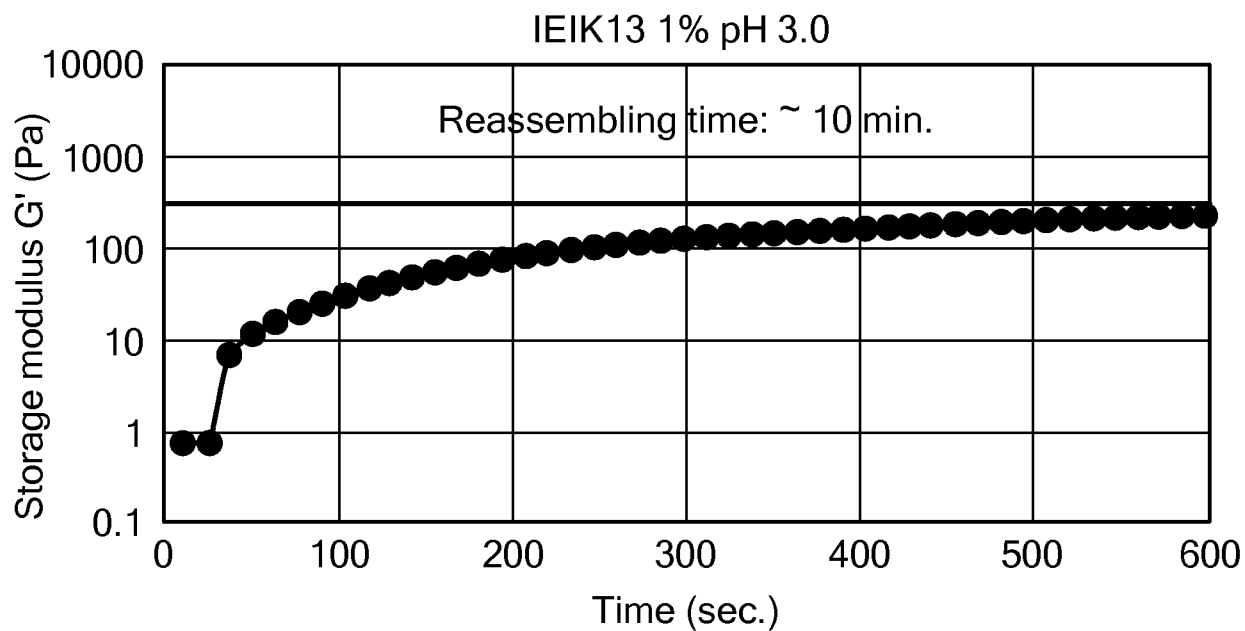
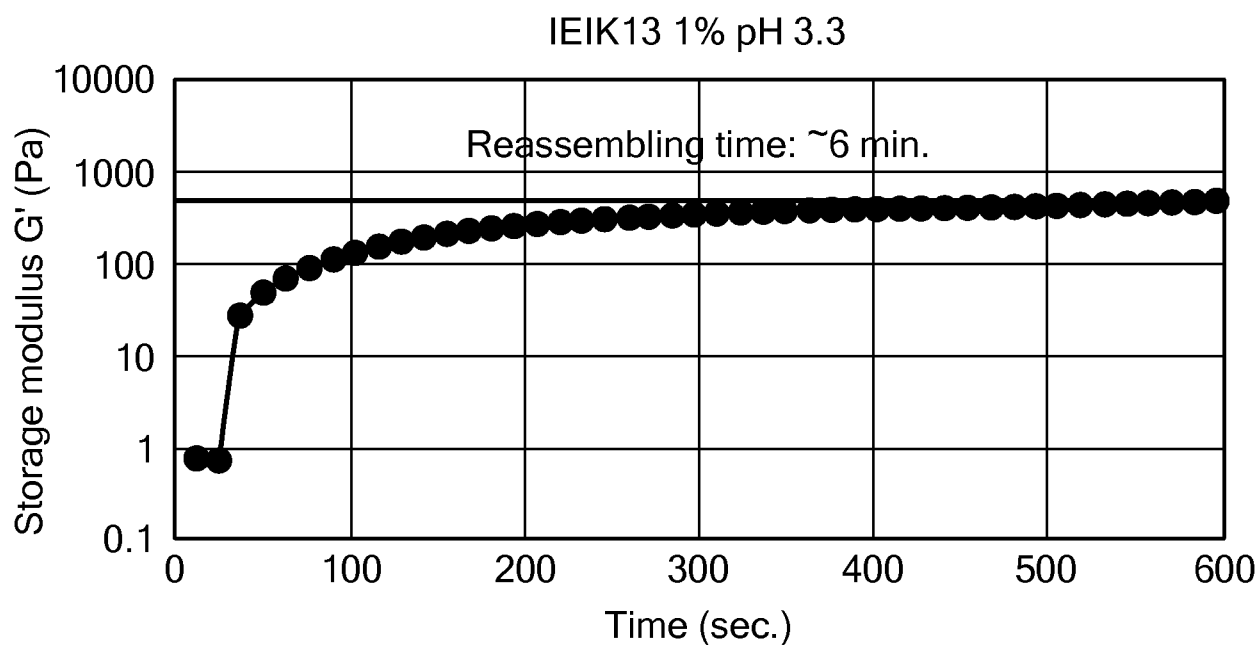
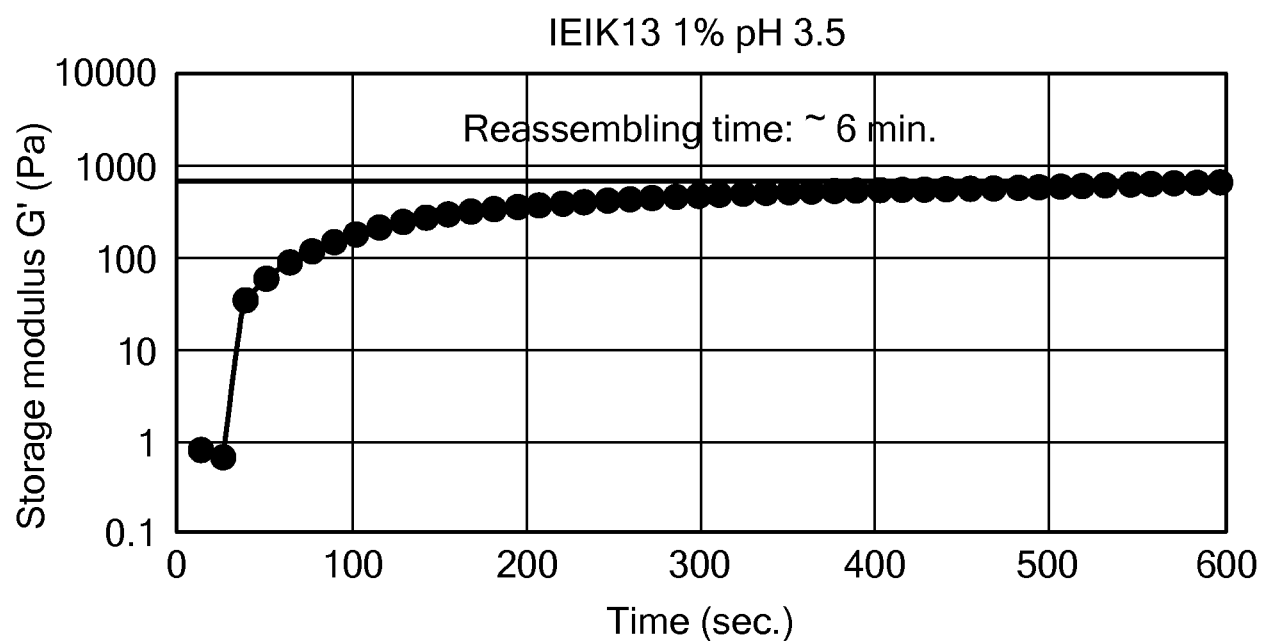


Figure 20B

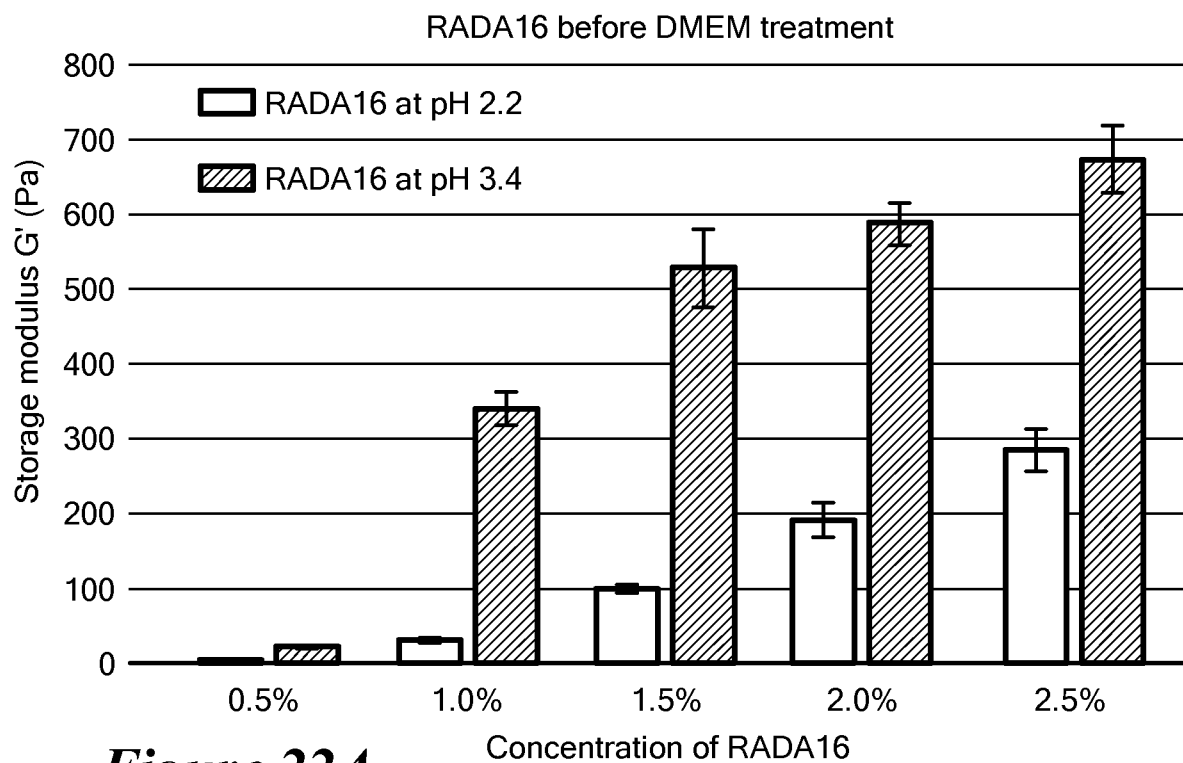
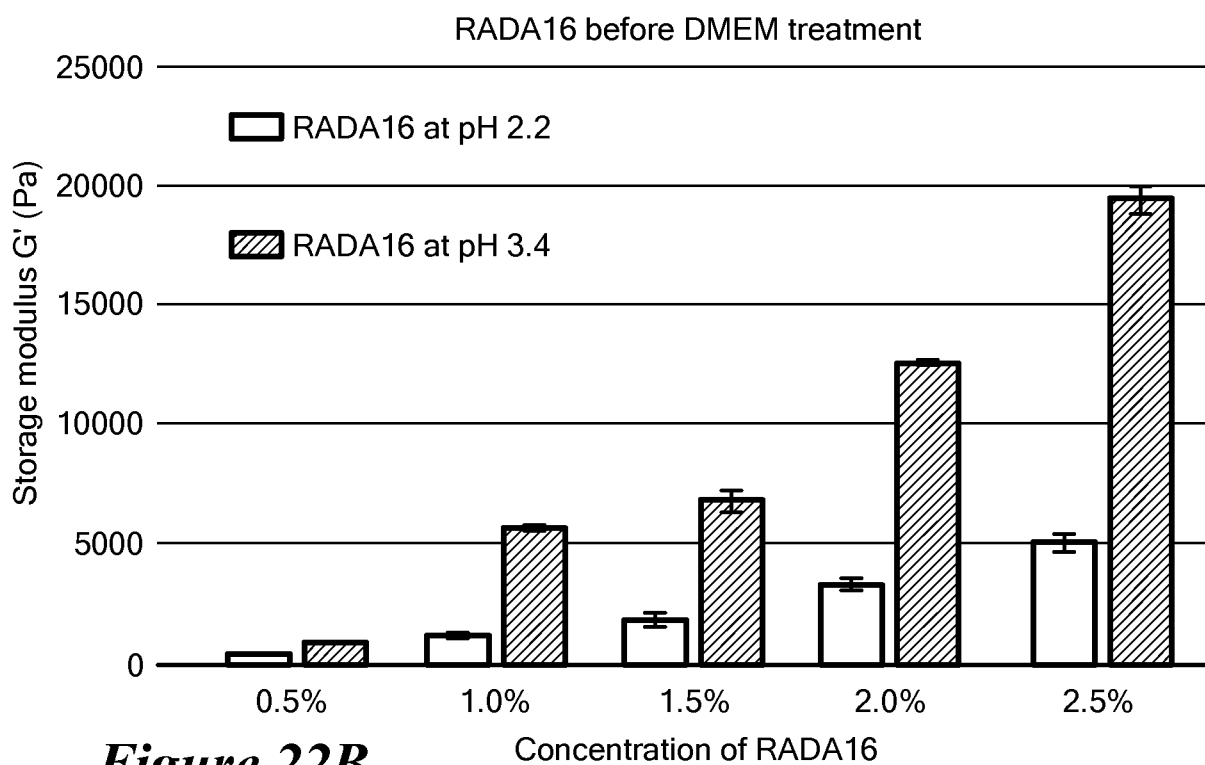
22/53

*Figure 21A**Figure 21B*

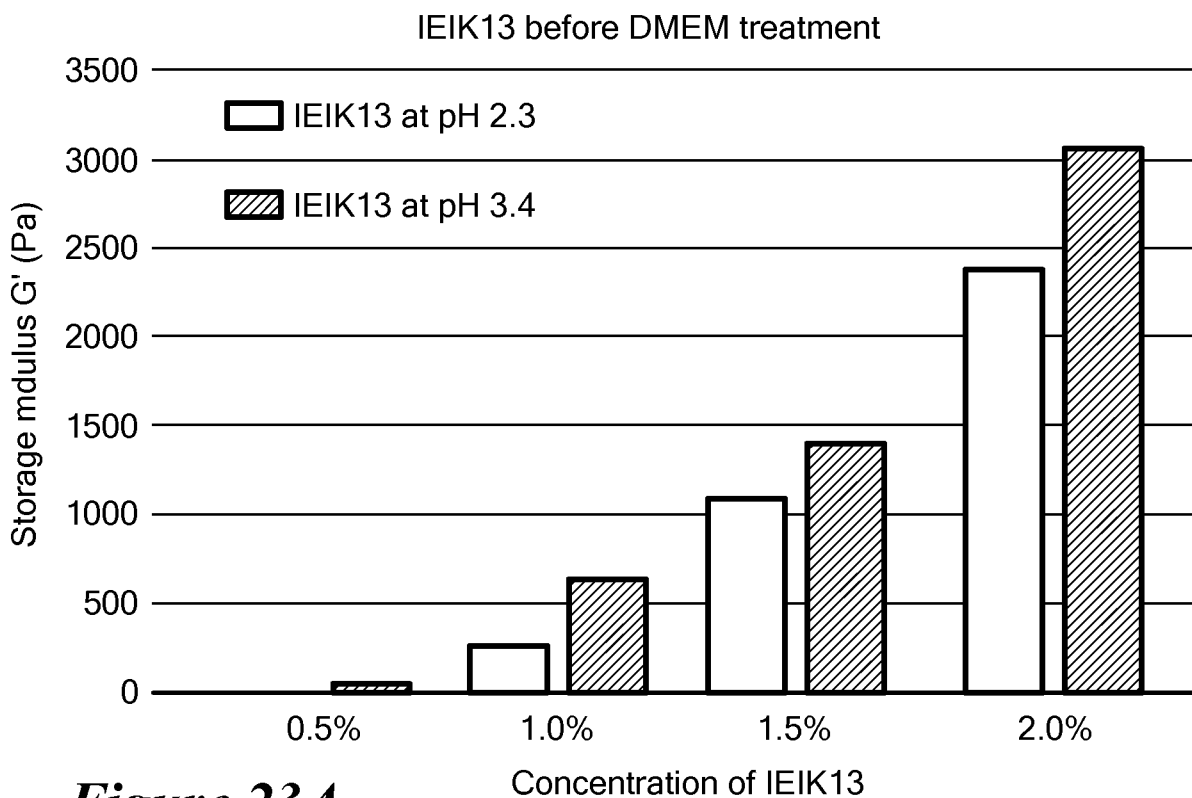
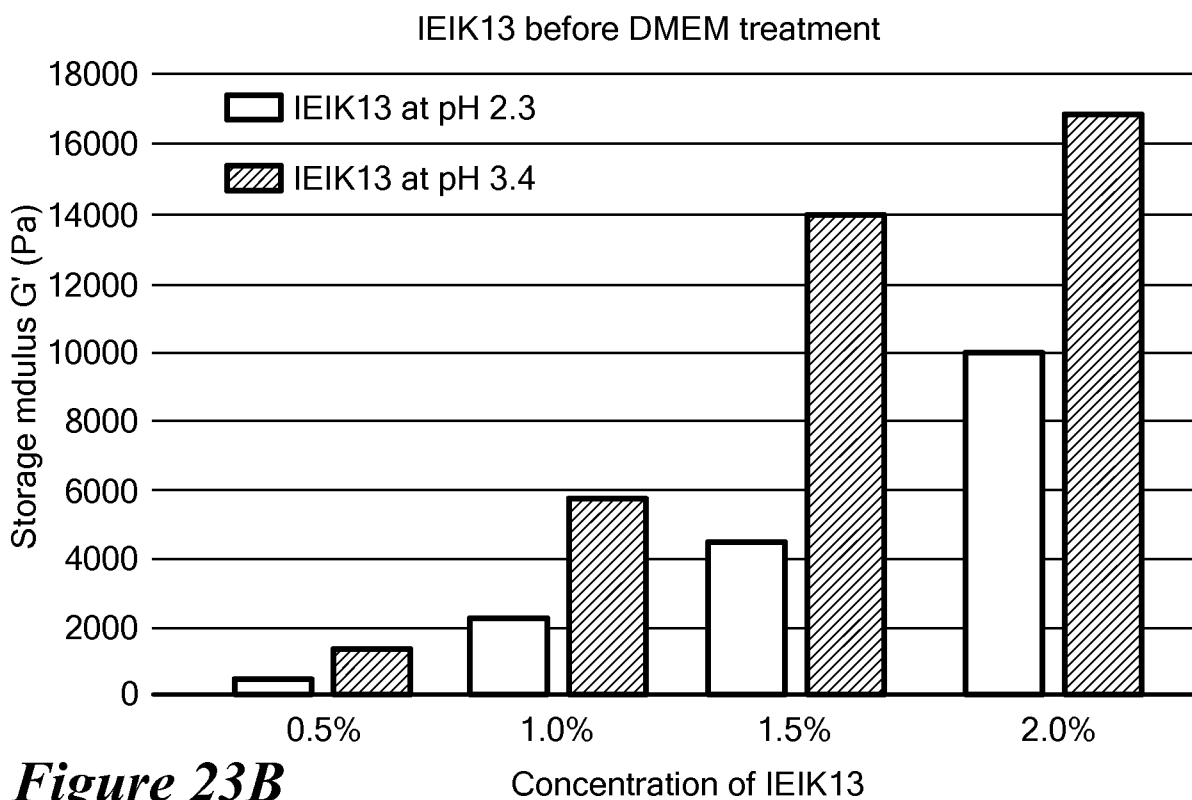
23/53

*Figure 21C**Figure 21D*

24/53

*Figure 22A**Figure 22B*

25/53

**Figure 23A****Figure 23B**

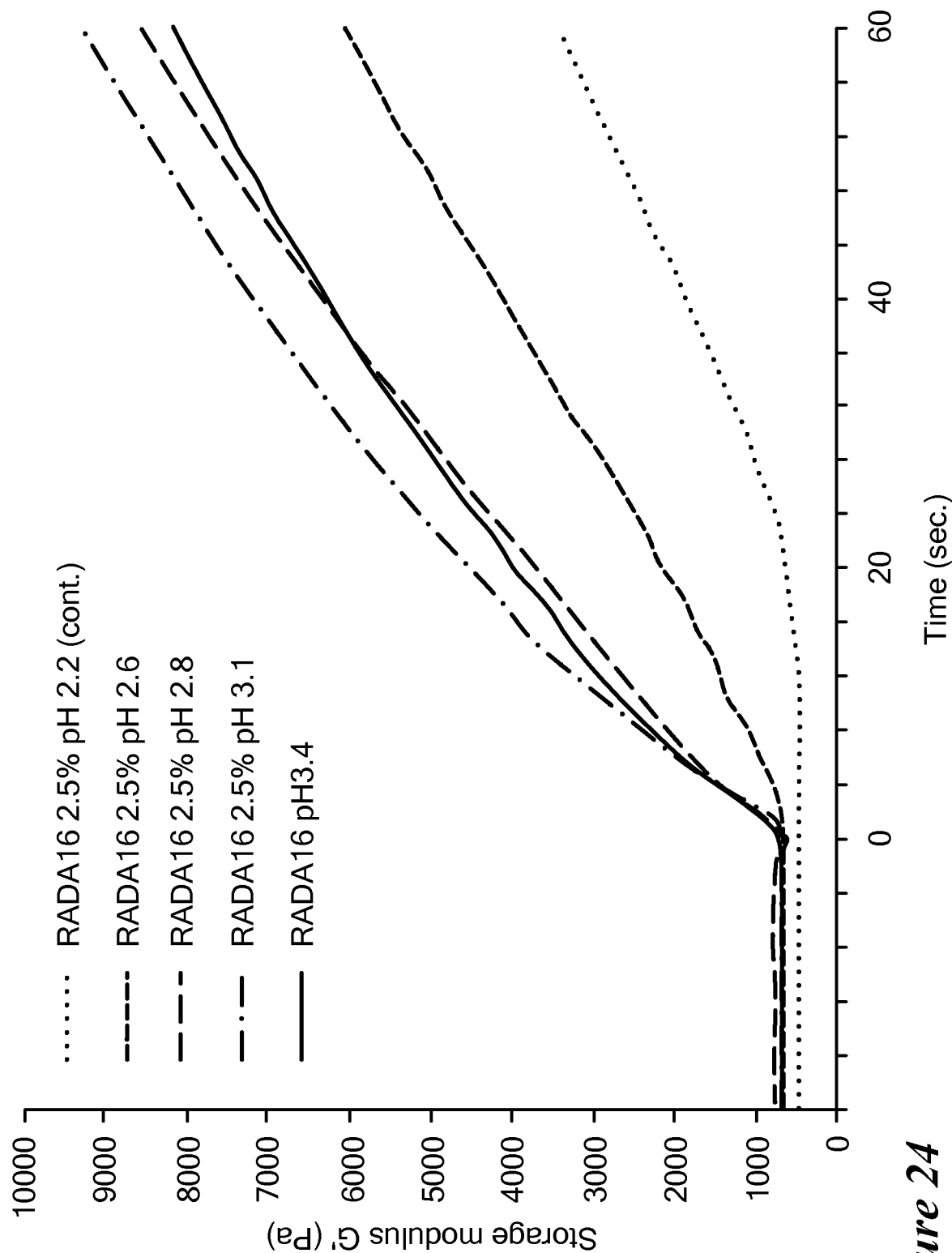


Figure 24

27/53

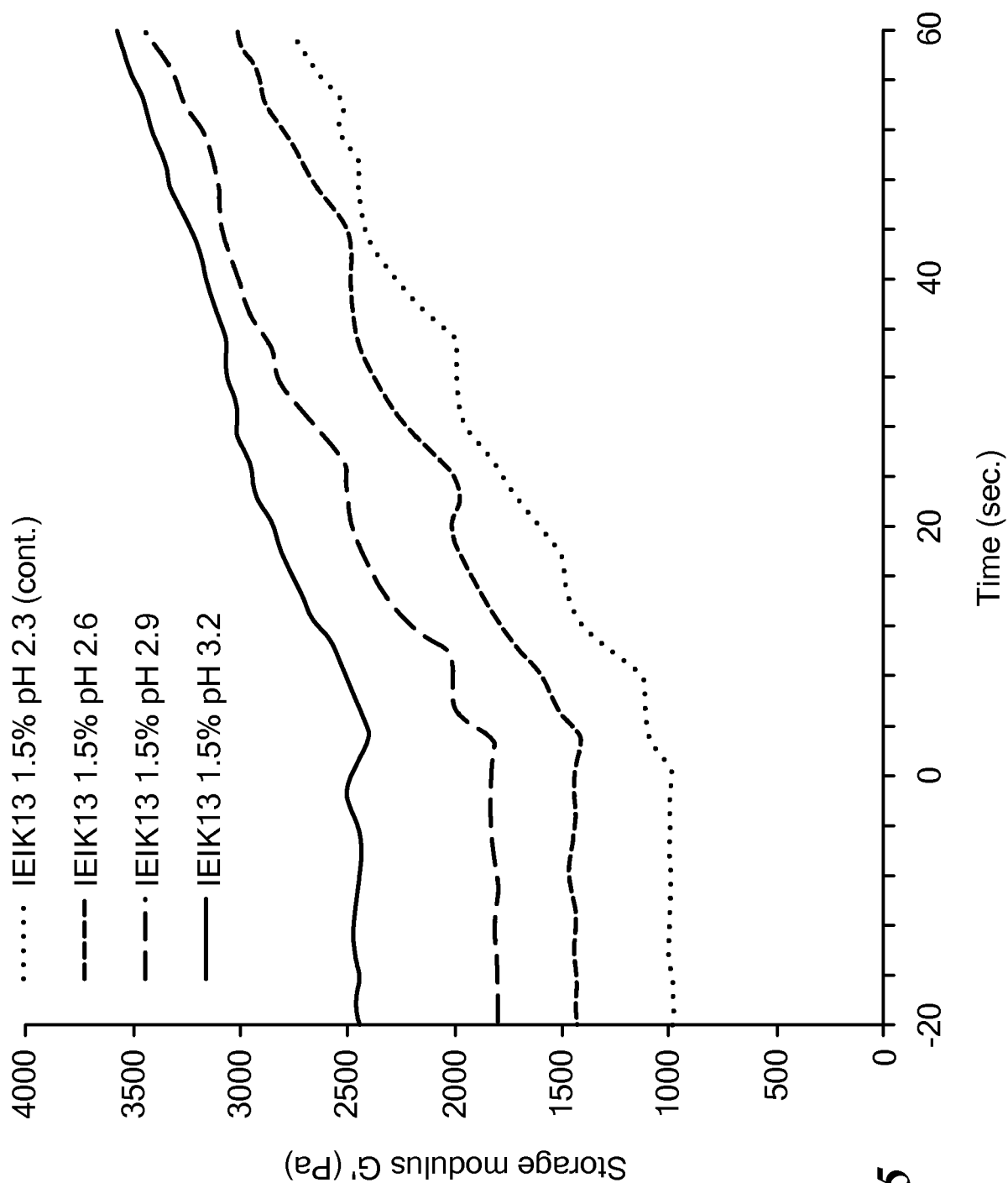
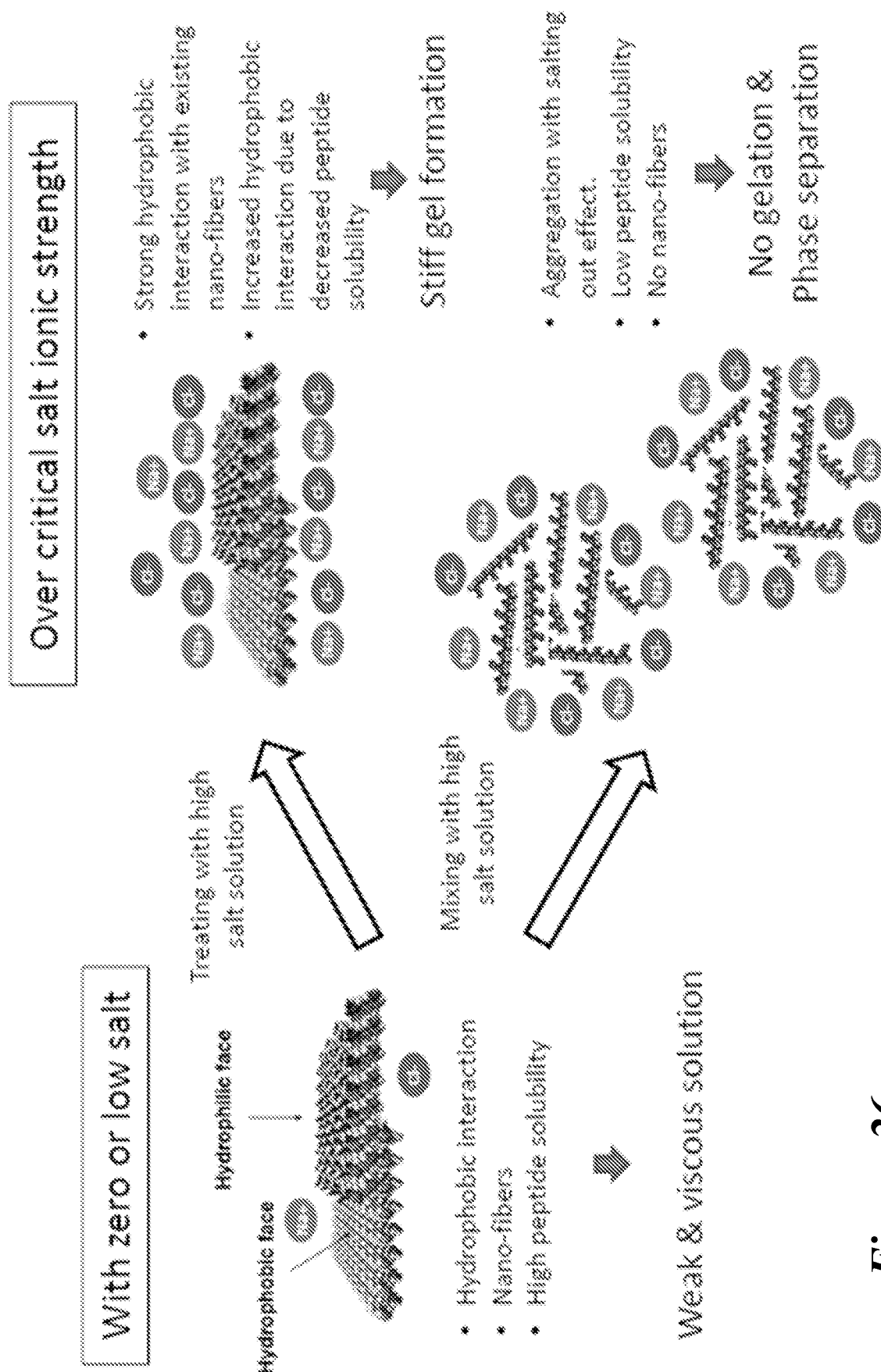
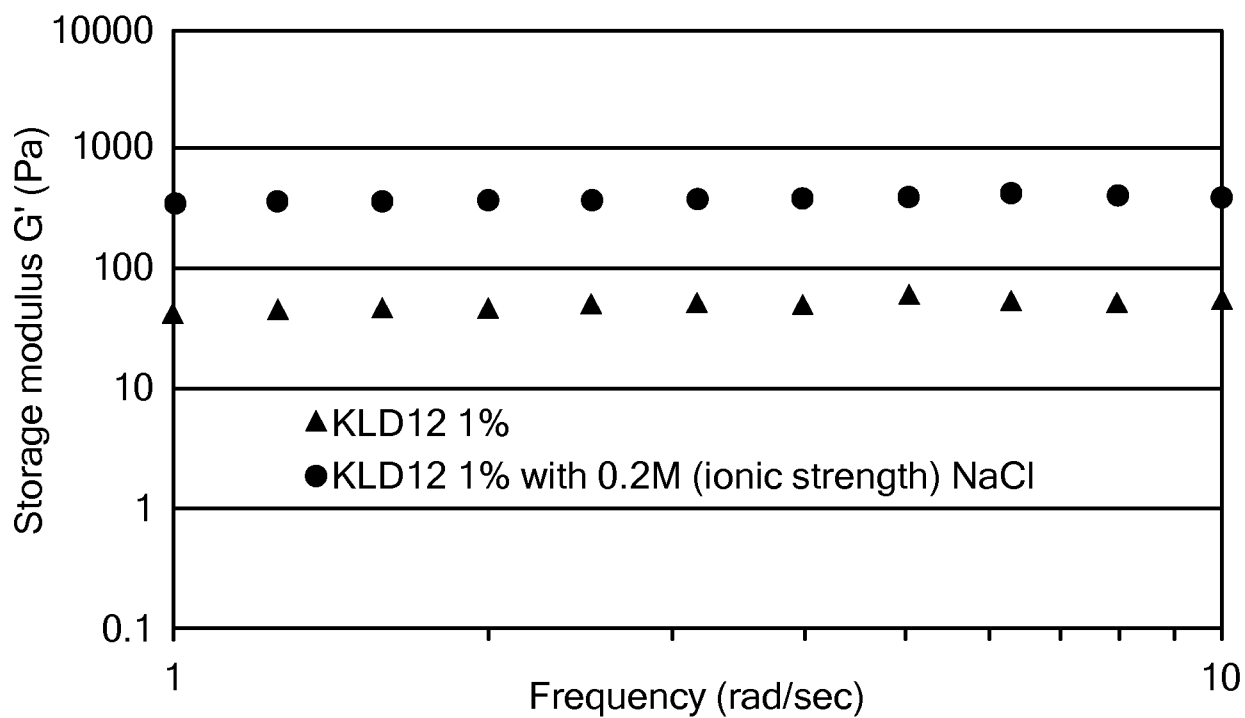
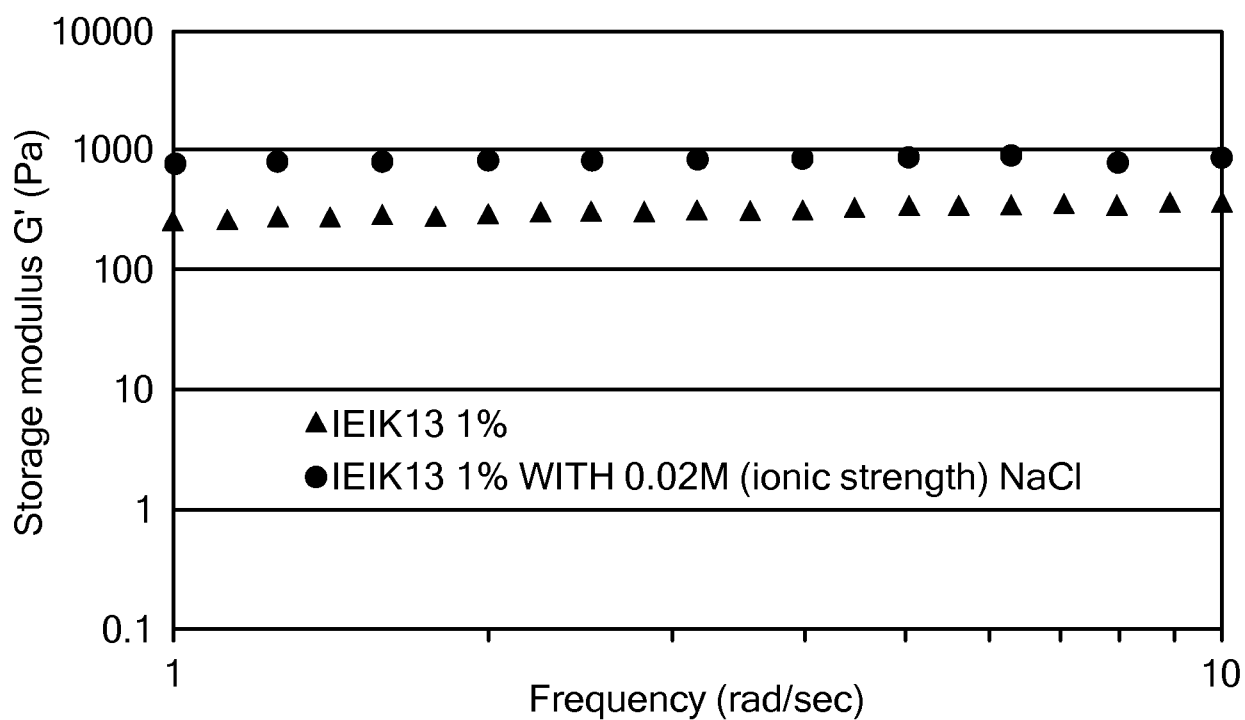


Figure 25

28/53

*Figure 26*

29/53

*Figure 27**Figure 28*

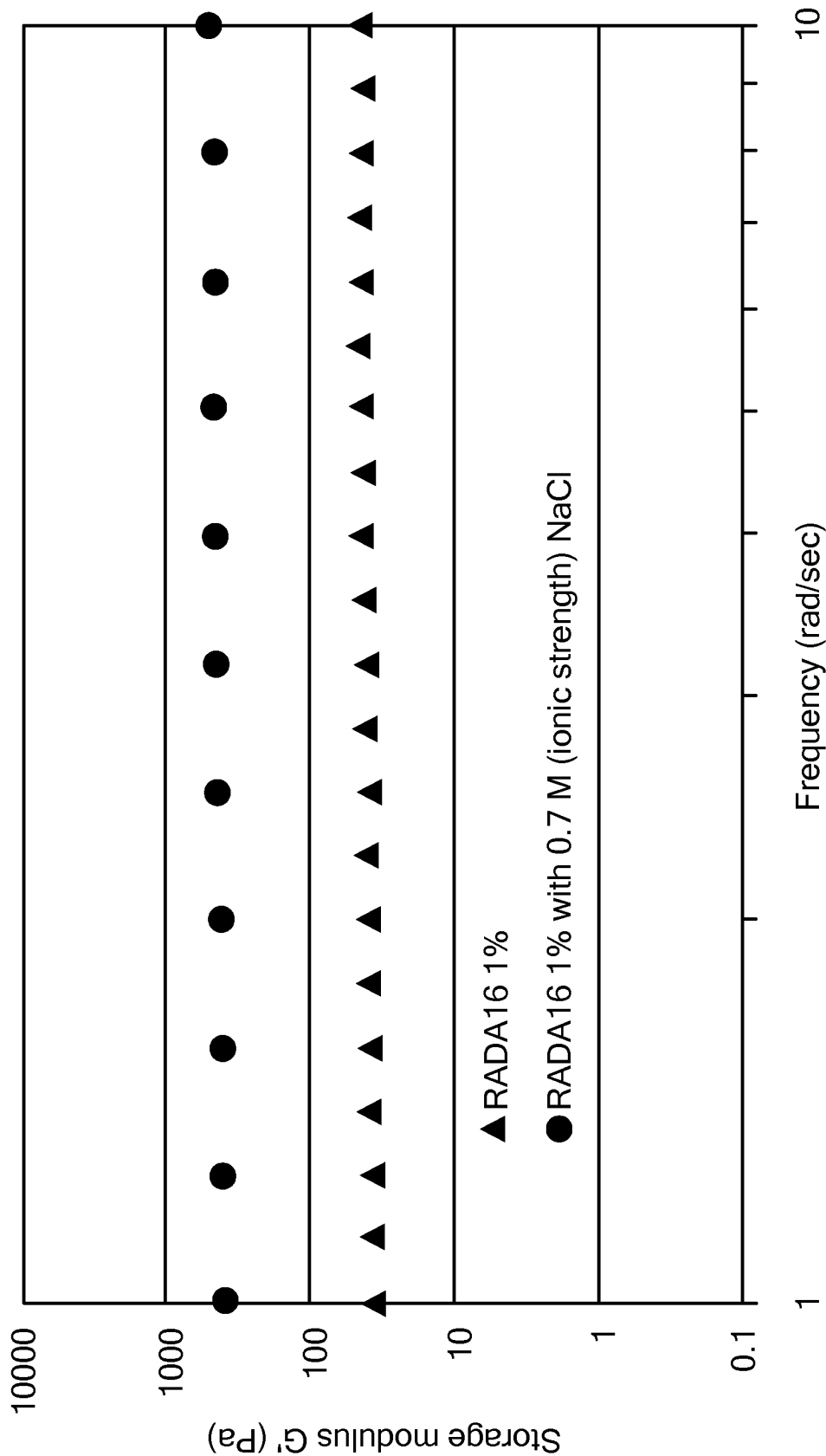


Figure 29

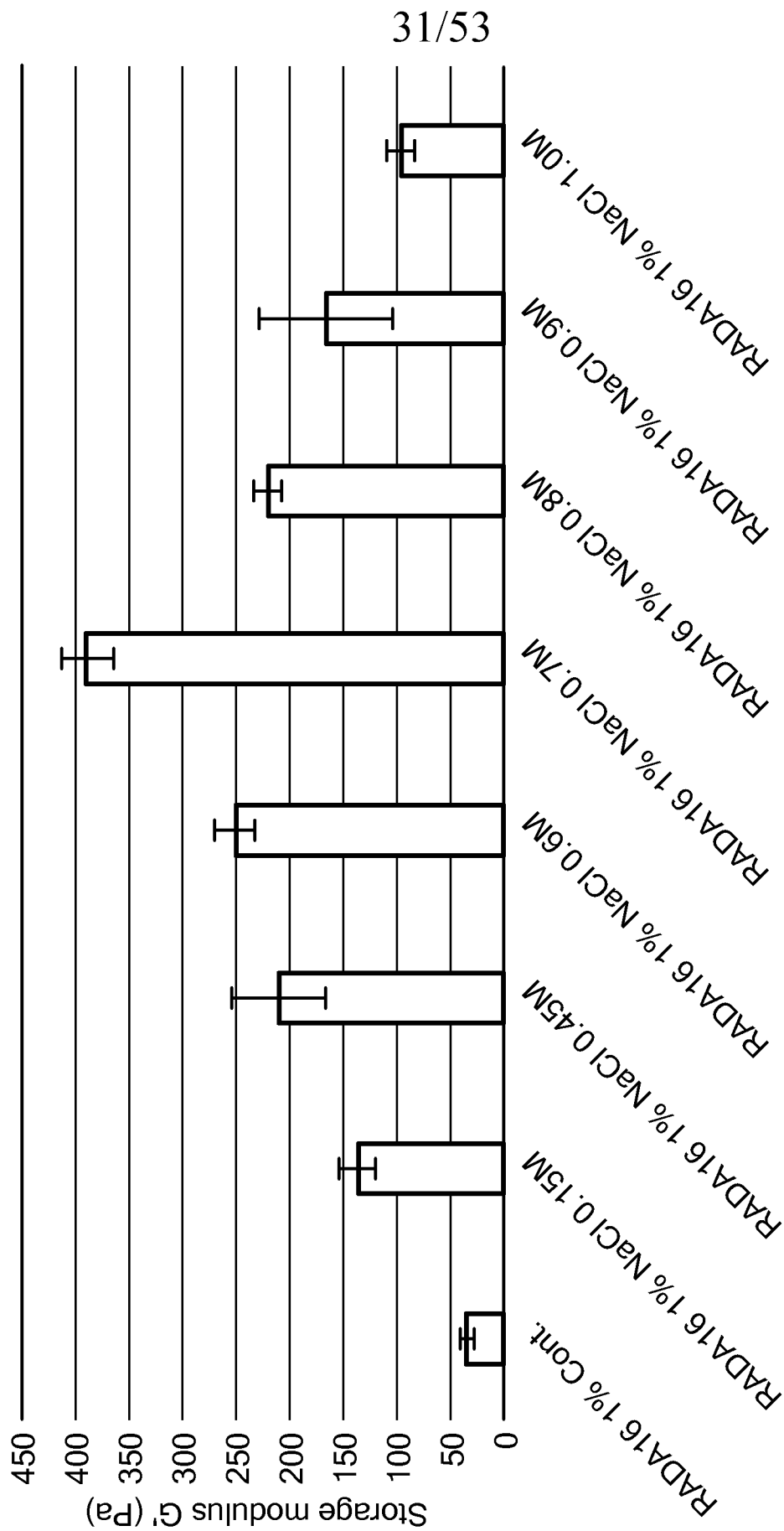


Figure 30

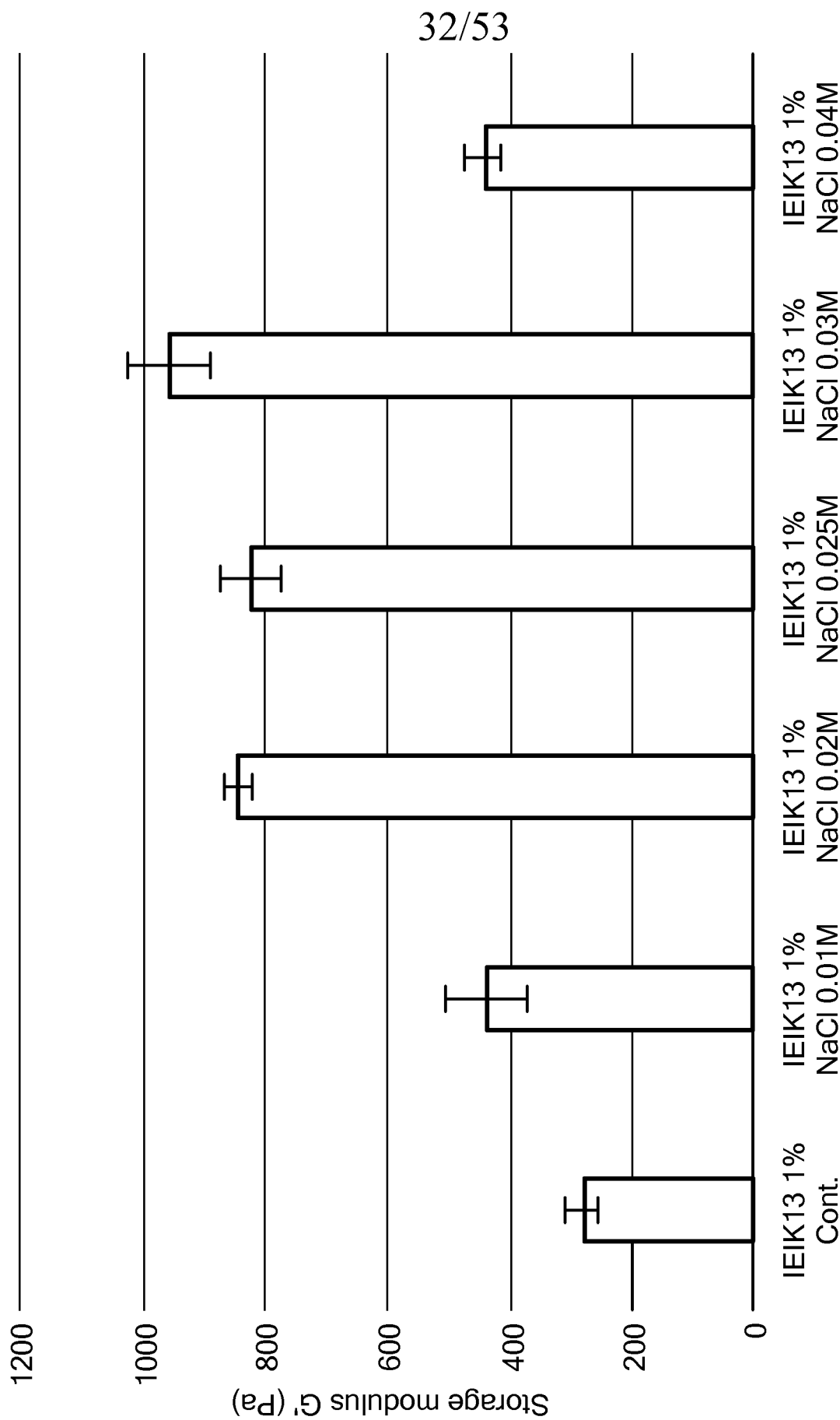
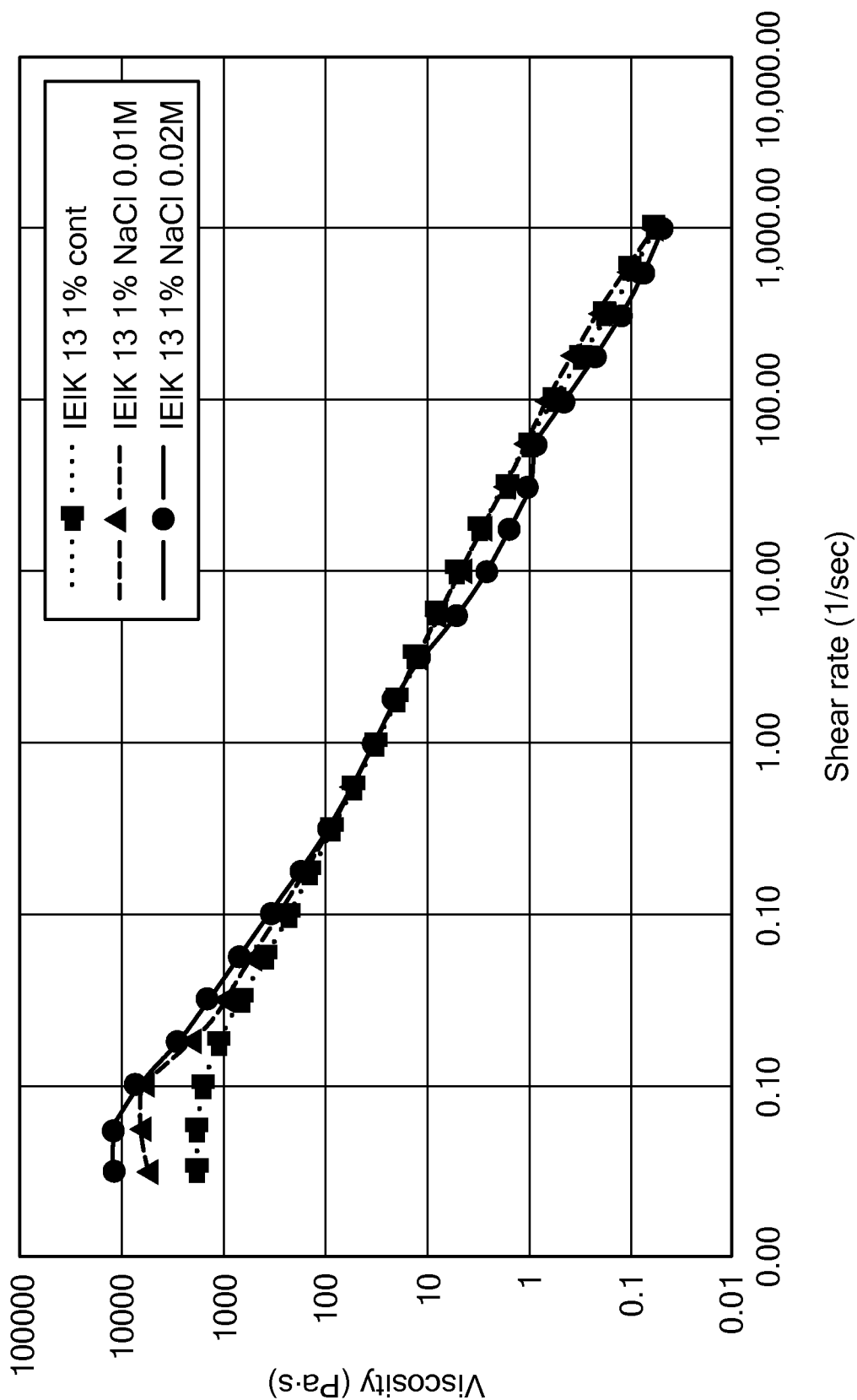


Figure 31

33/53

*Figure 32A*

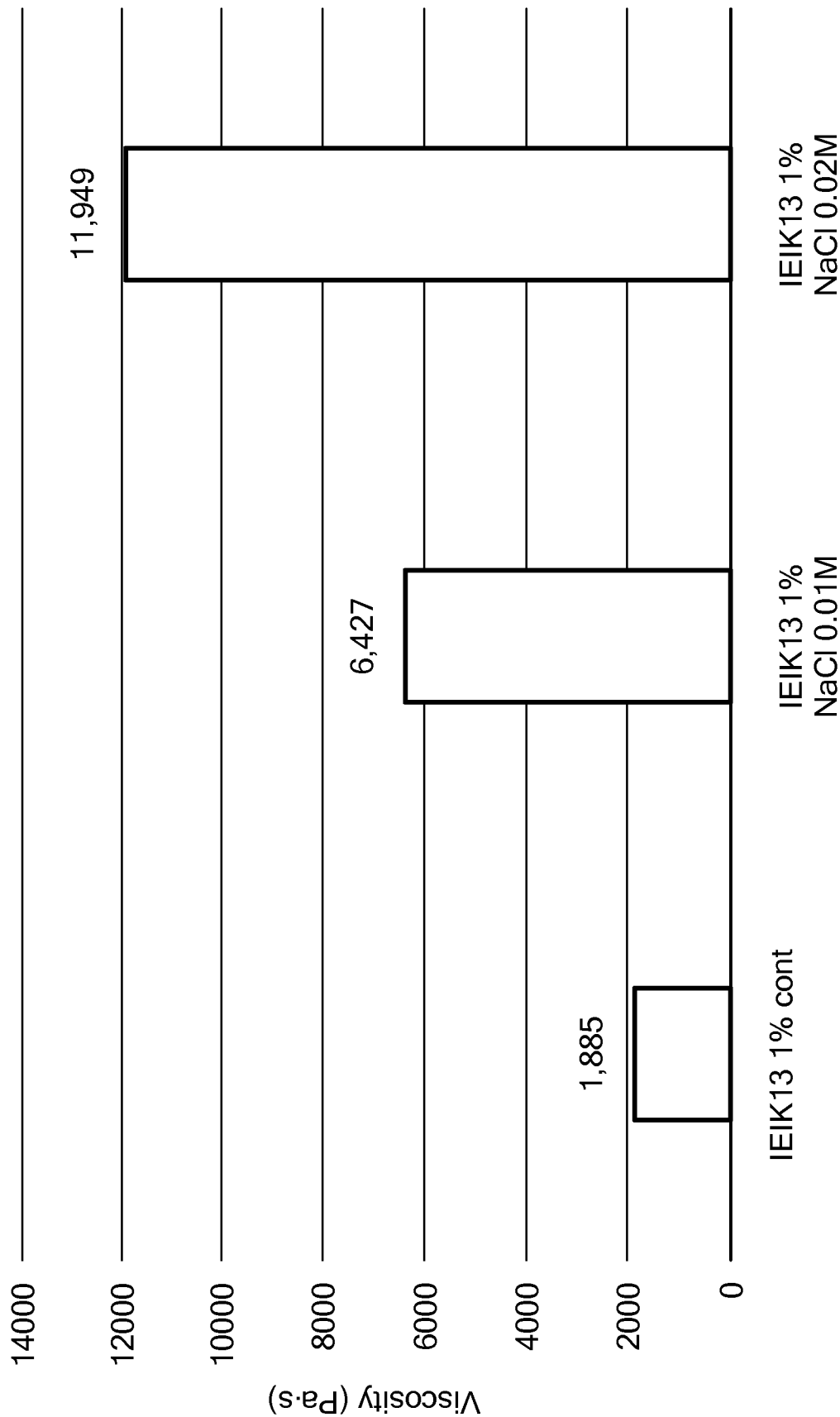
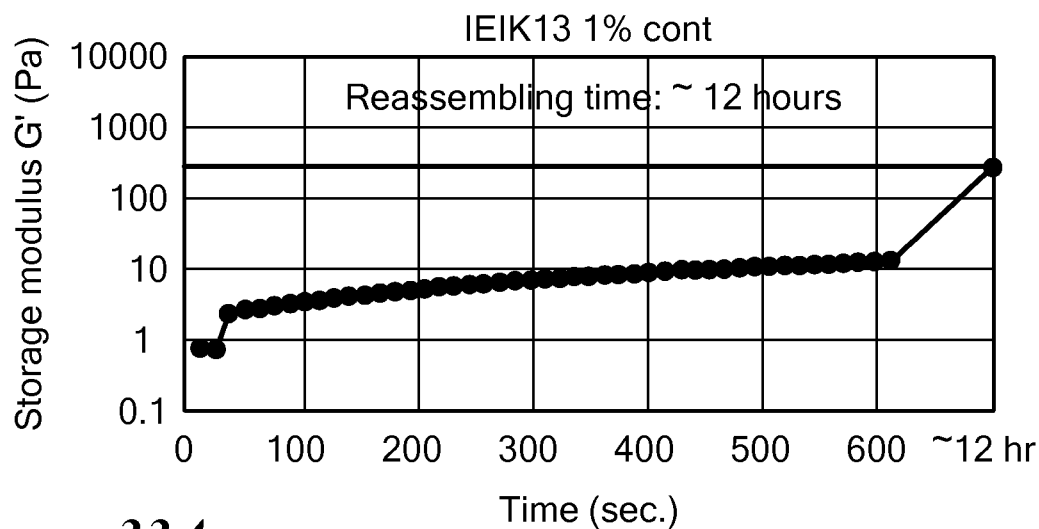
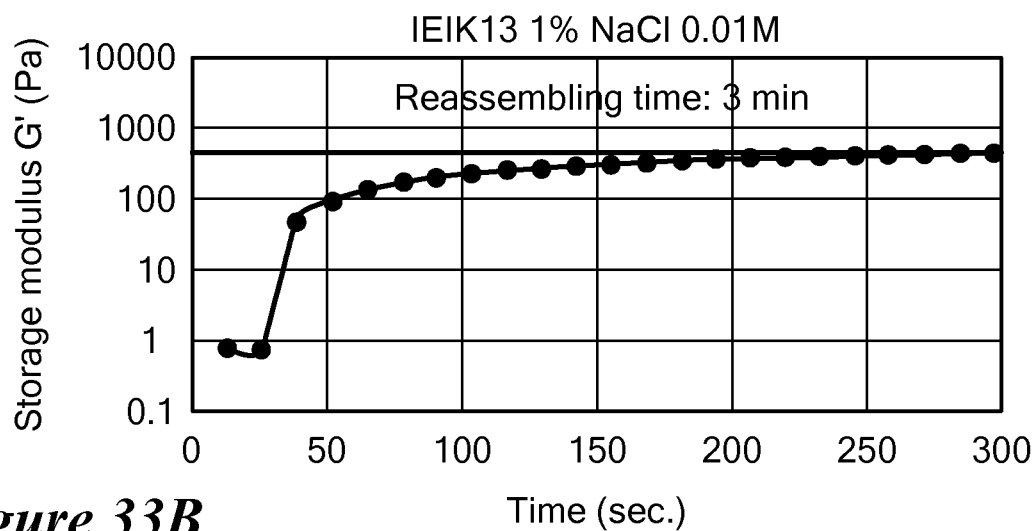
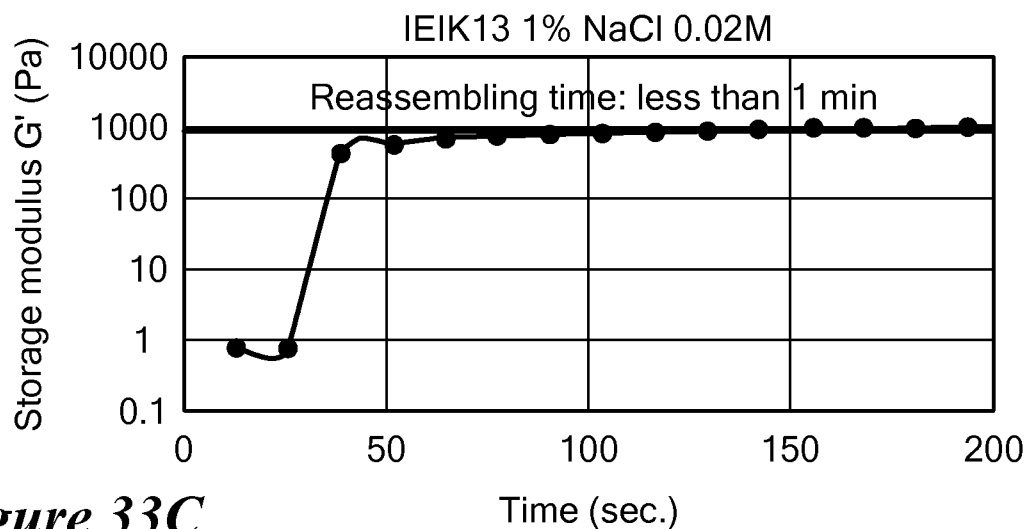


Figure 32B

35/53

*Figure 33A**Figure 33B**Figure 33C*

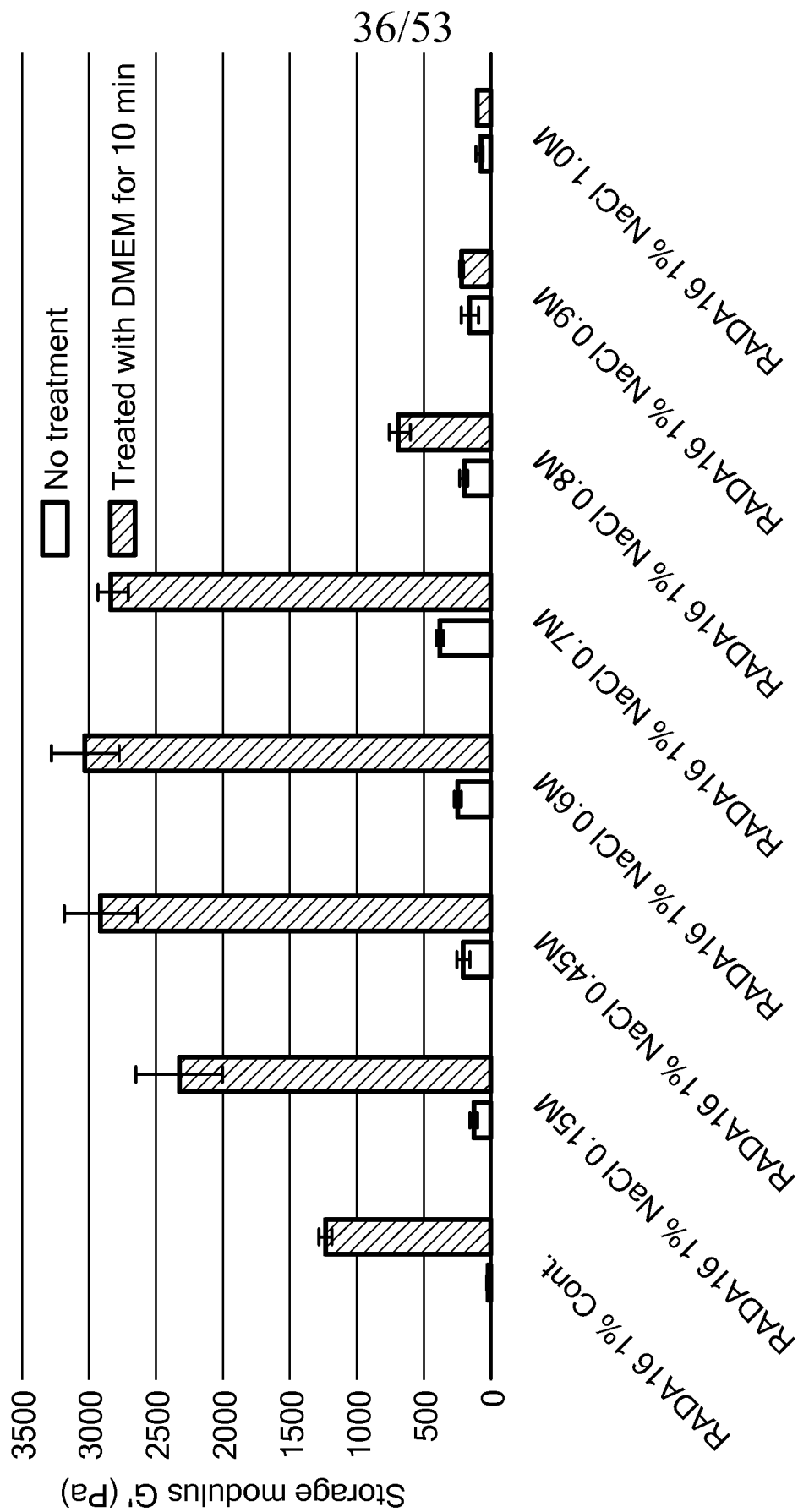


Figure 34

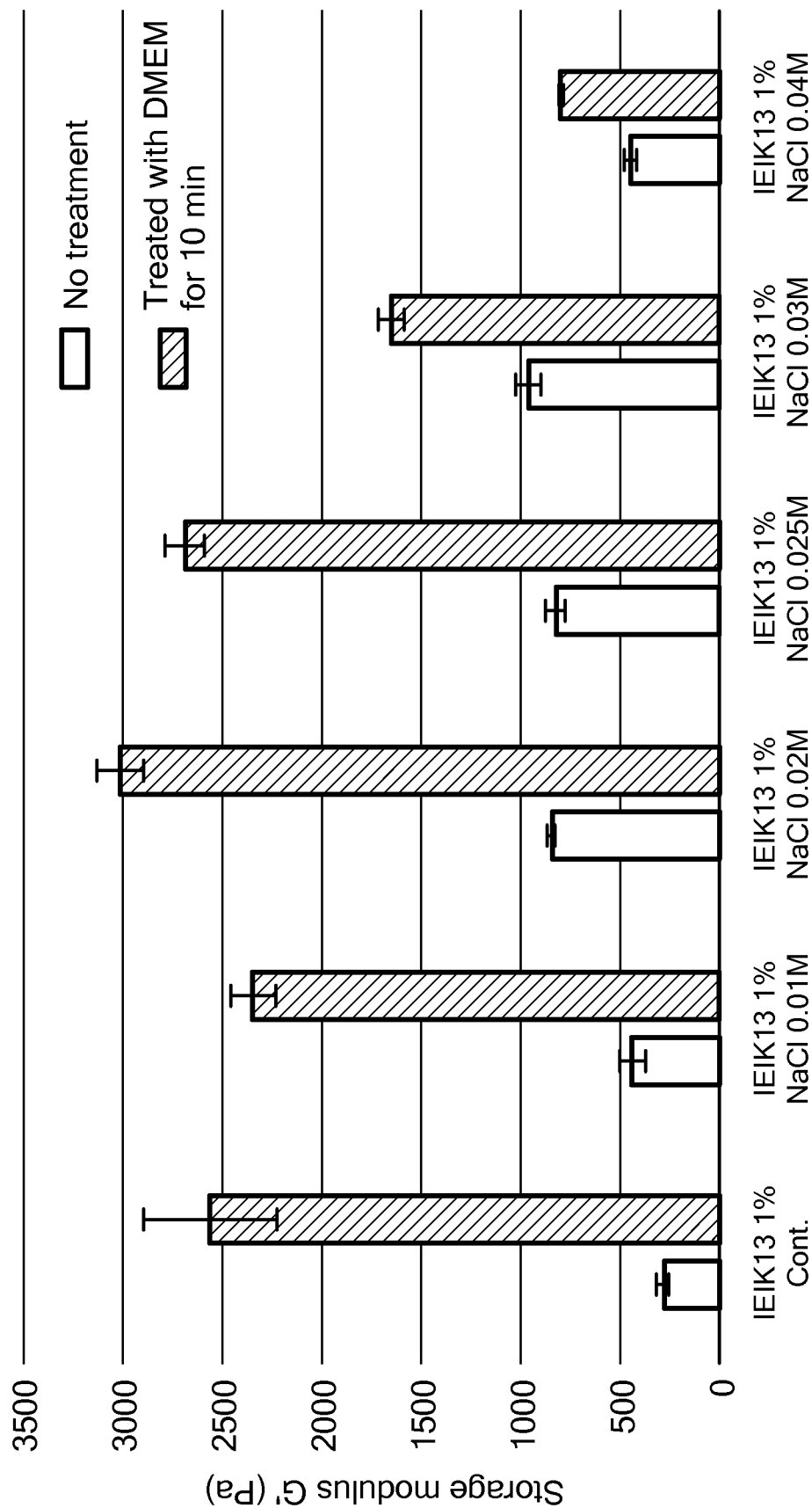


Figure 35

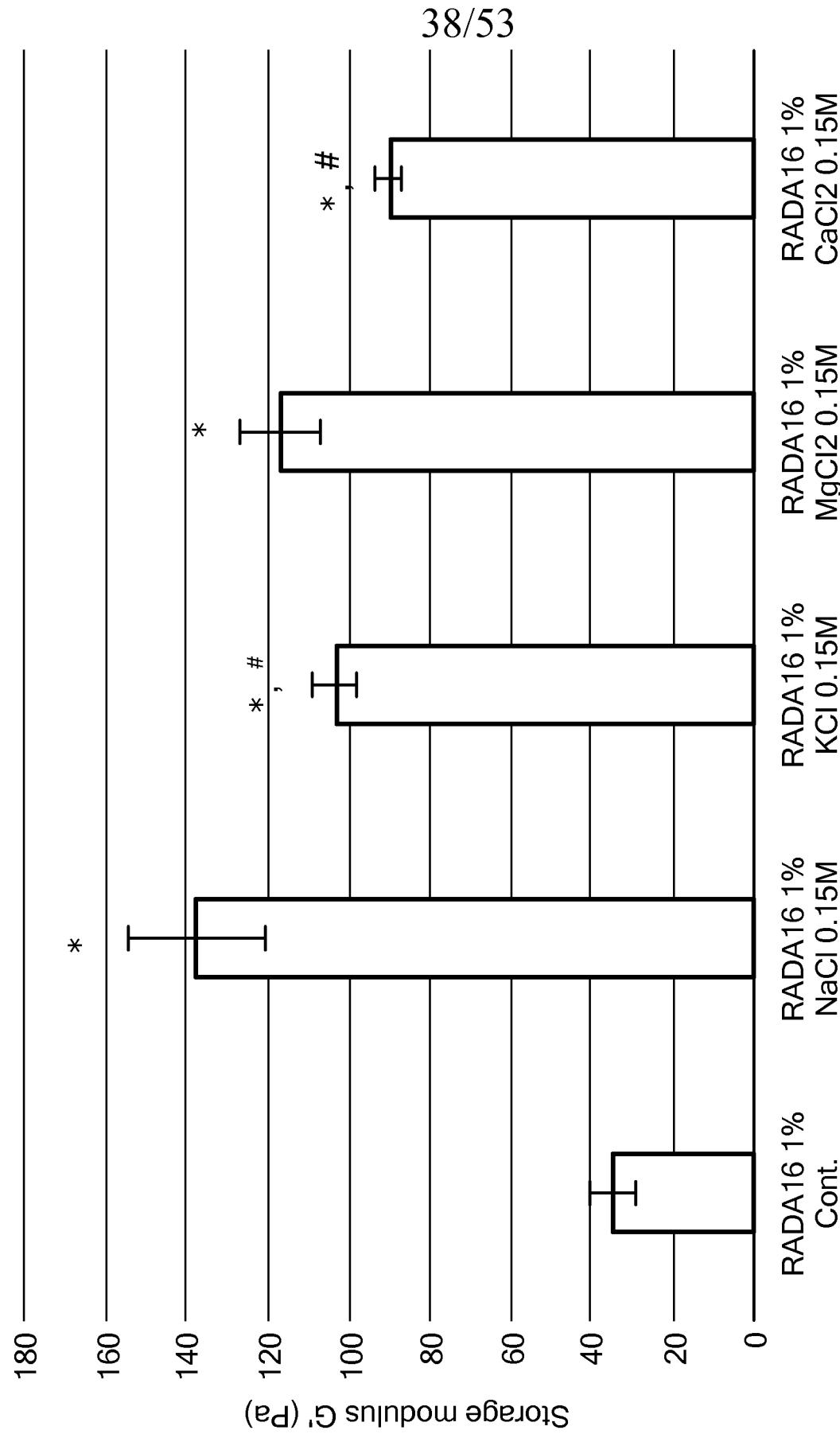


Figure 36

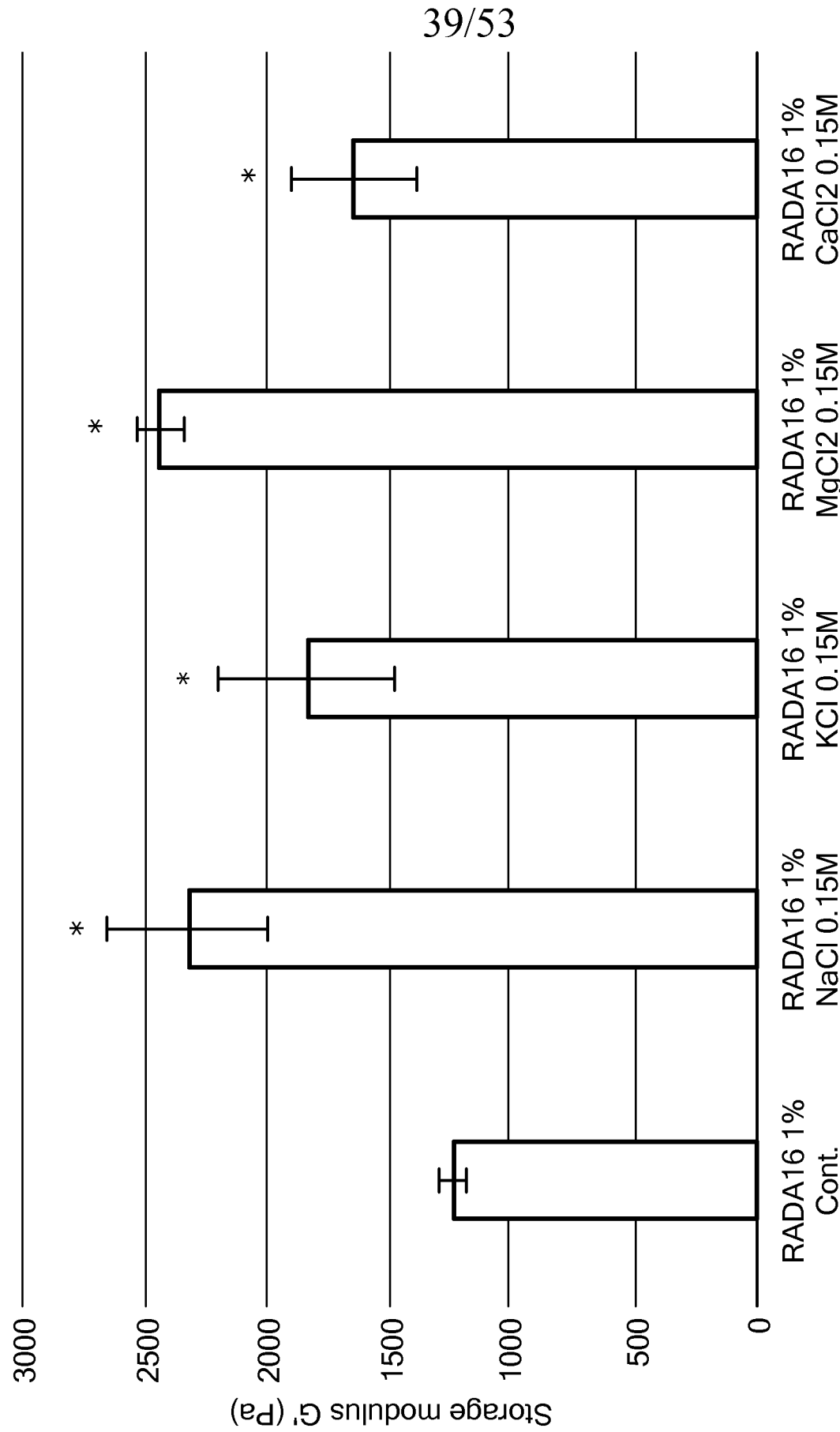


Figure 37

40/53

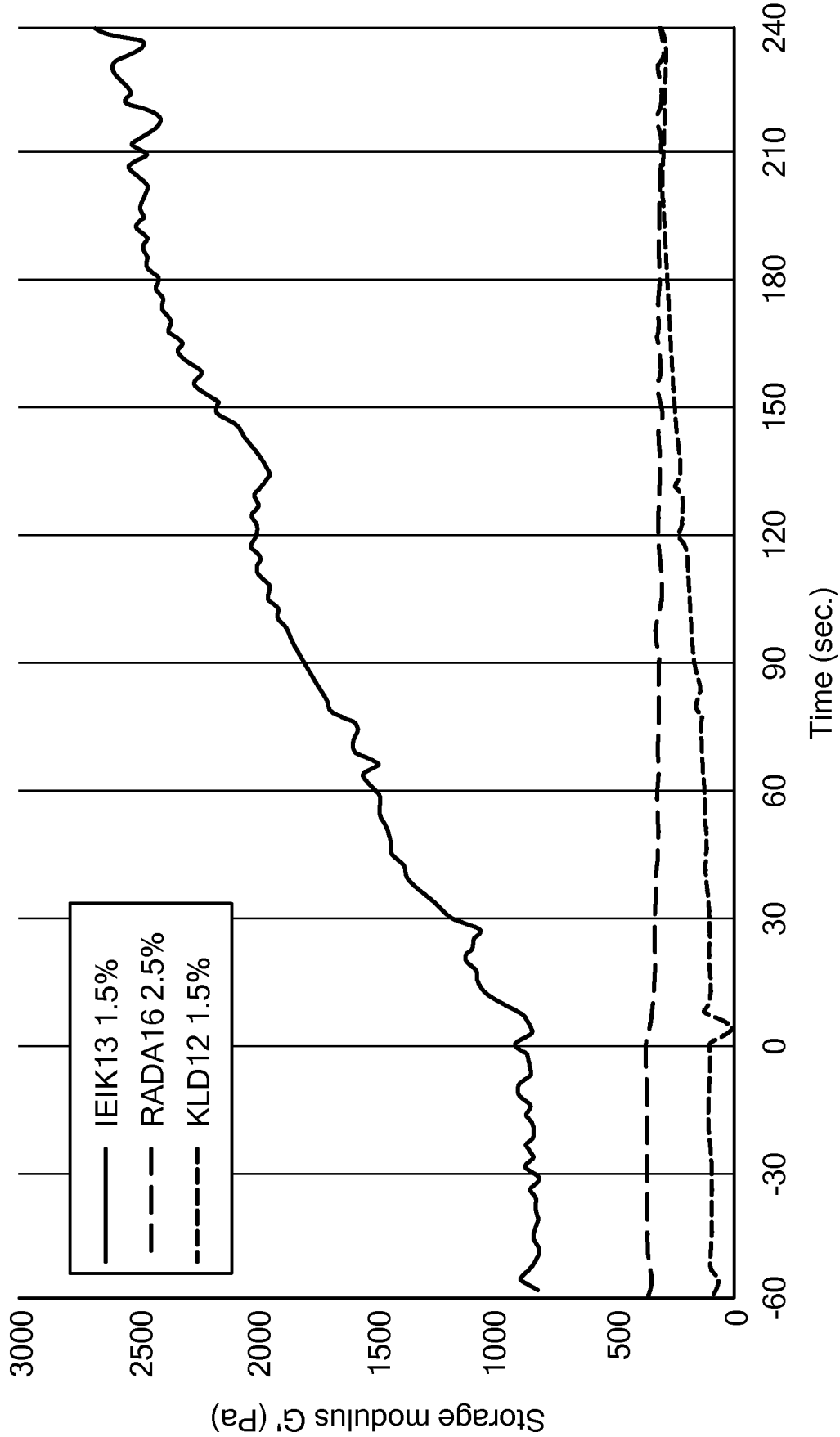


Figure 38

41/53

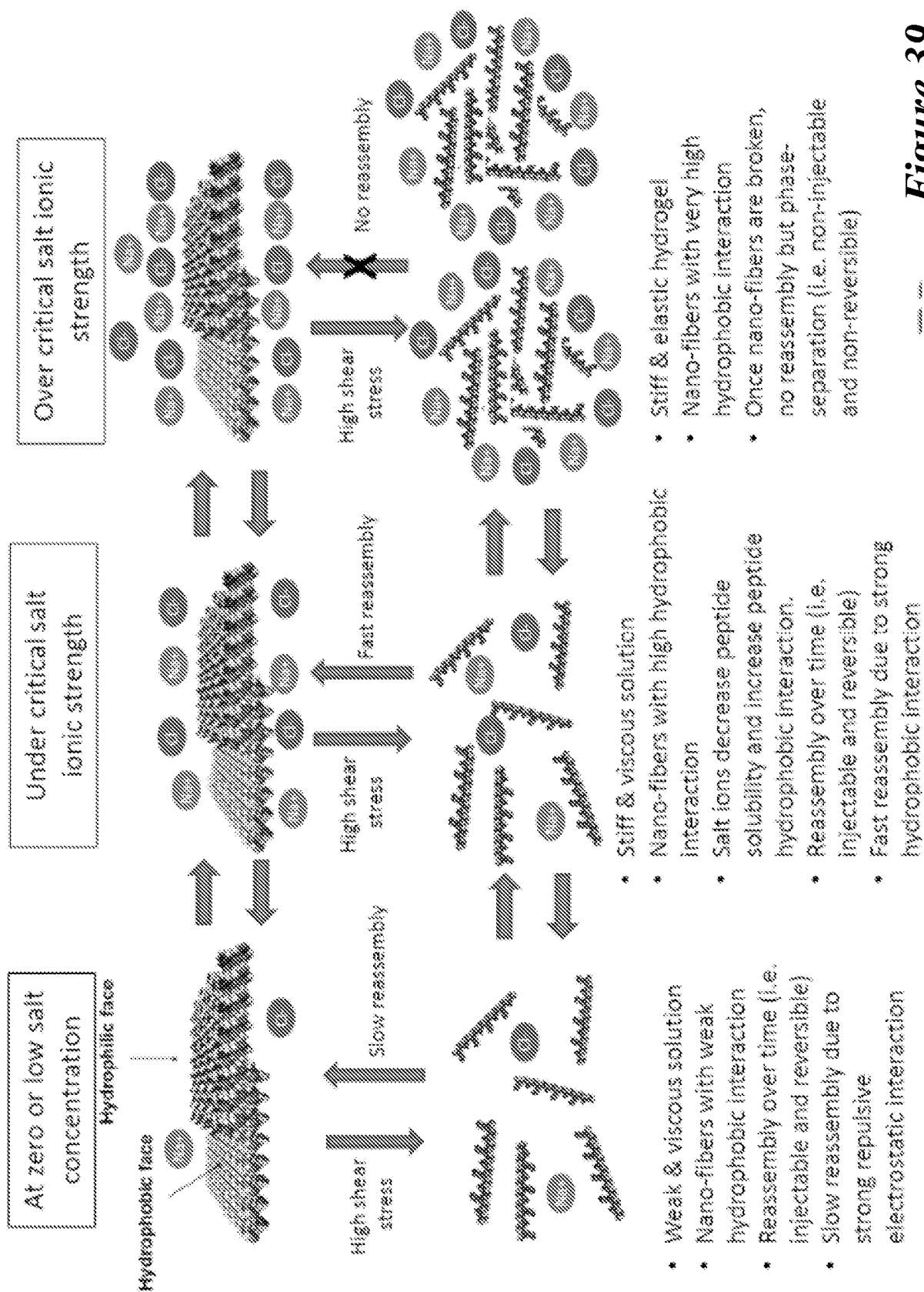


Figure 39

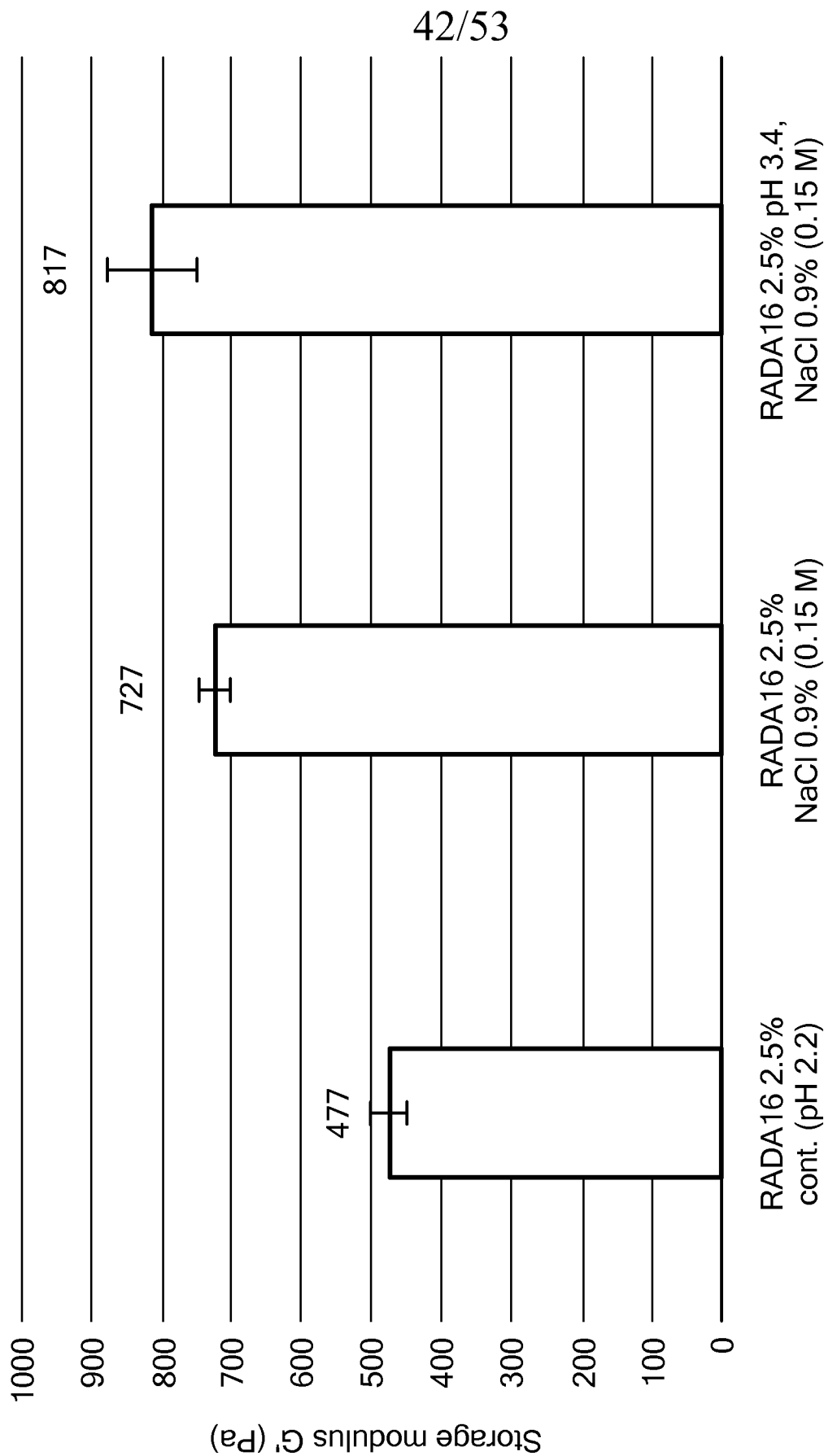


Figure 40

43/53

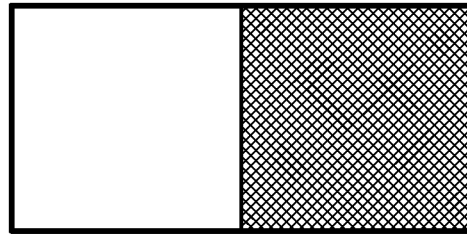


Figure 41D

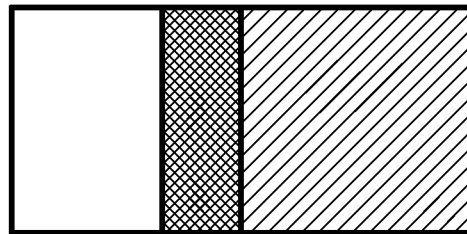


Figure 41C

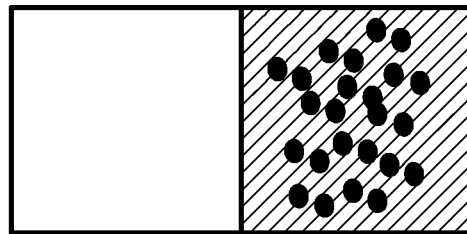


Figure 41B

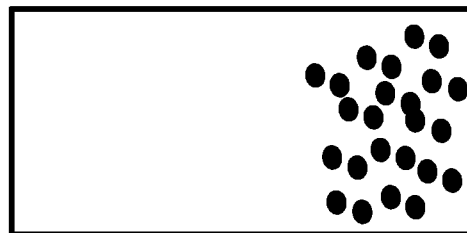


Figure 41A

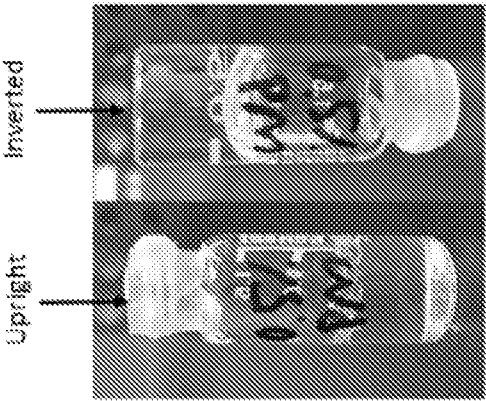


Figure 42A

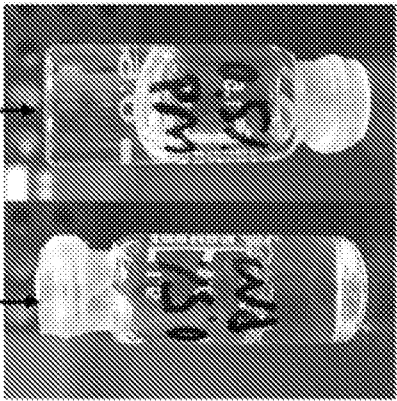


Figure 42B

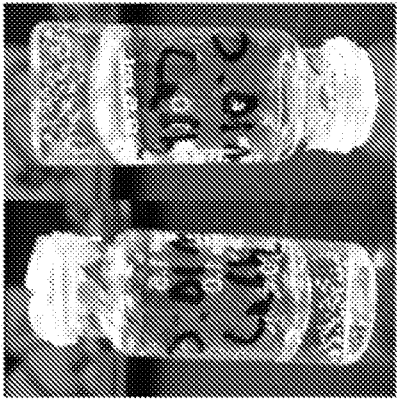


Figure 42C

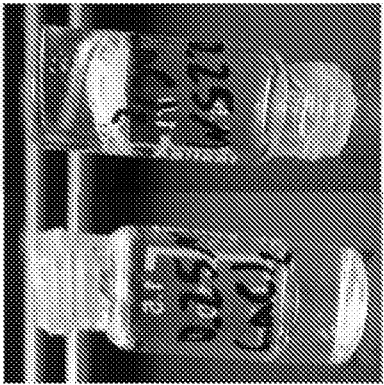
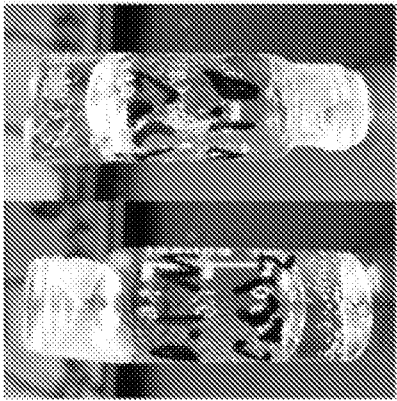


Figure 42D

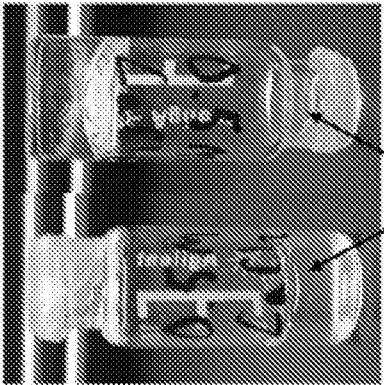


Figure 42E

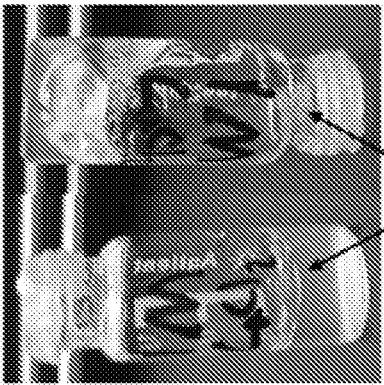


Figure 43

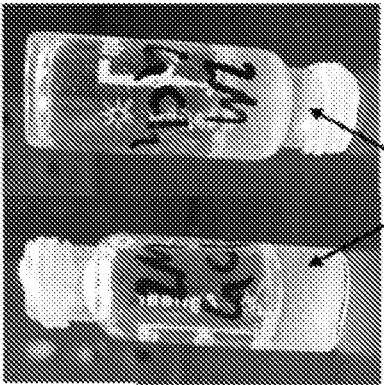


Figure 42G

Failed Gel (-)

Semi-Functional Gel (+/-)

Optimal Gel (+)

45/53

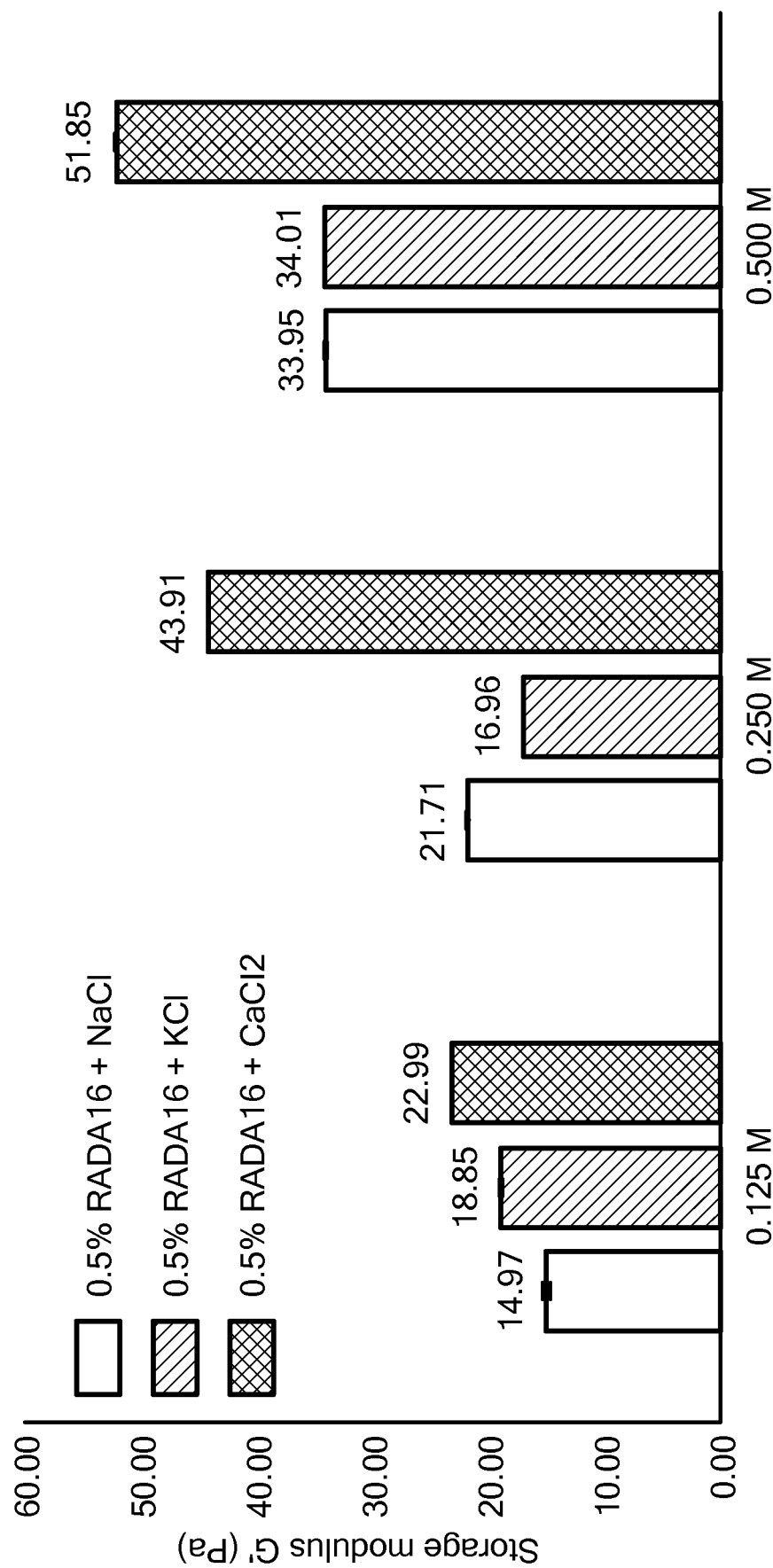


Figure 43

46/53

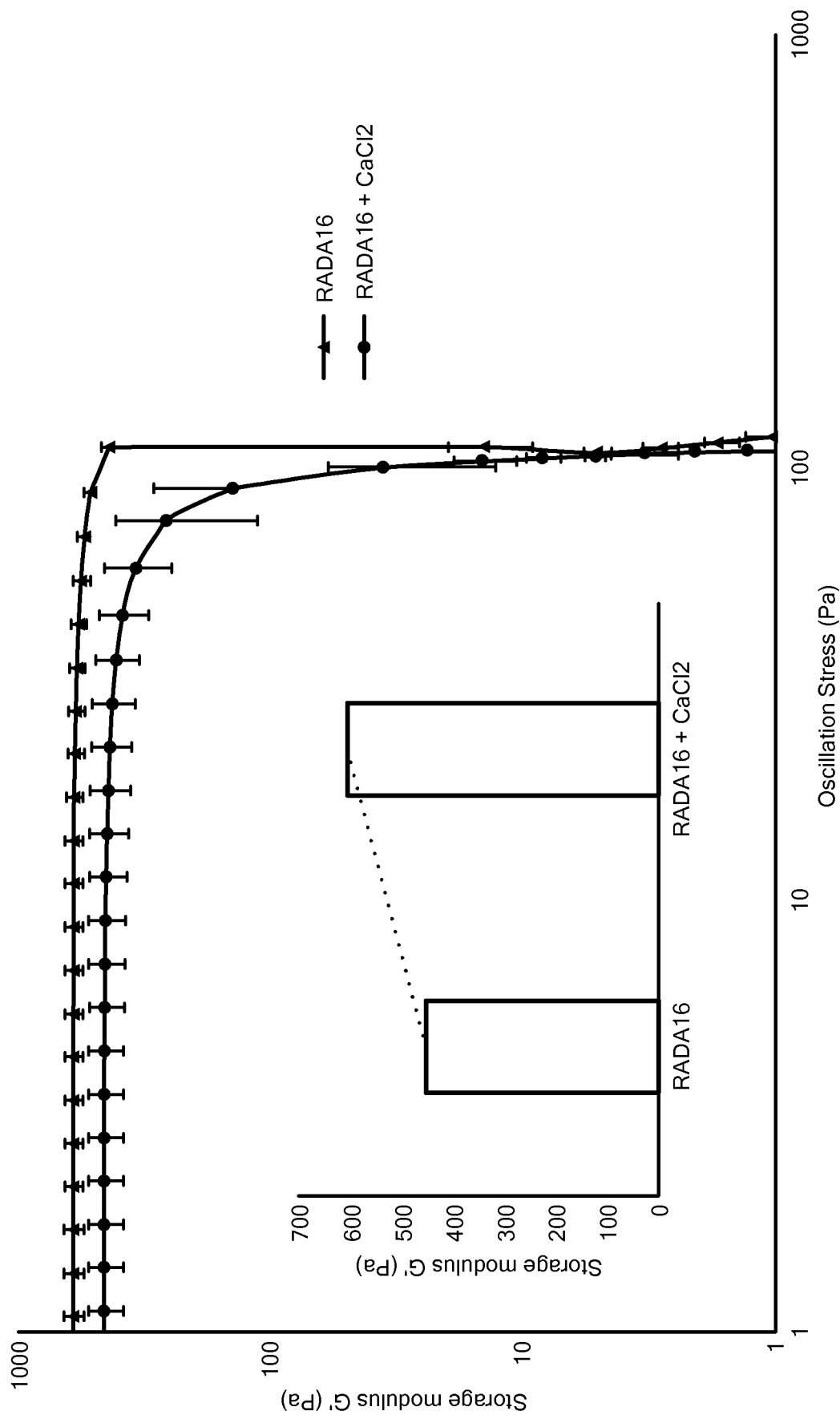


Figure 44

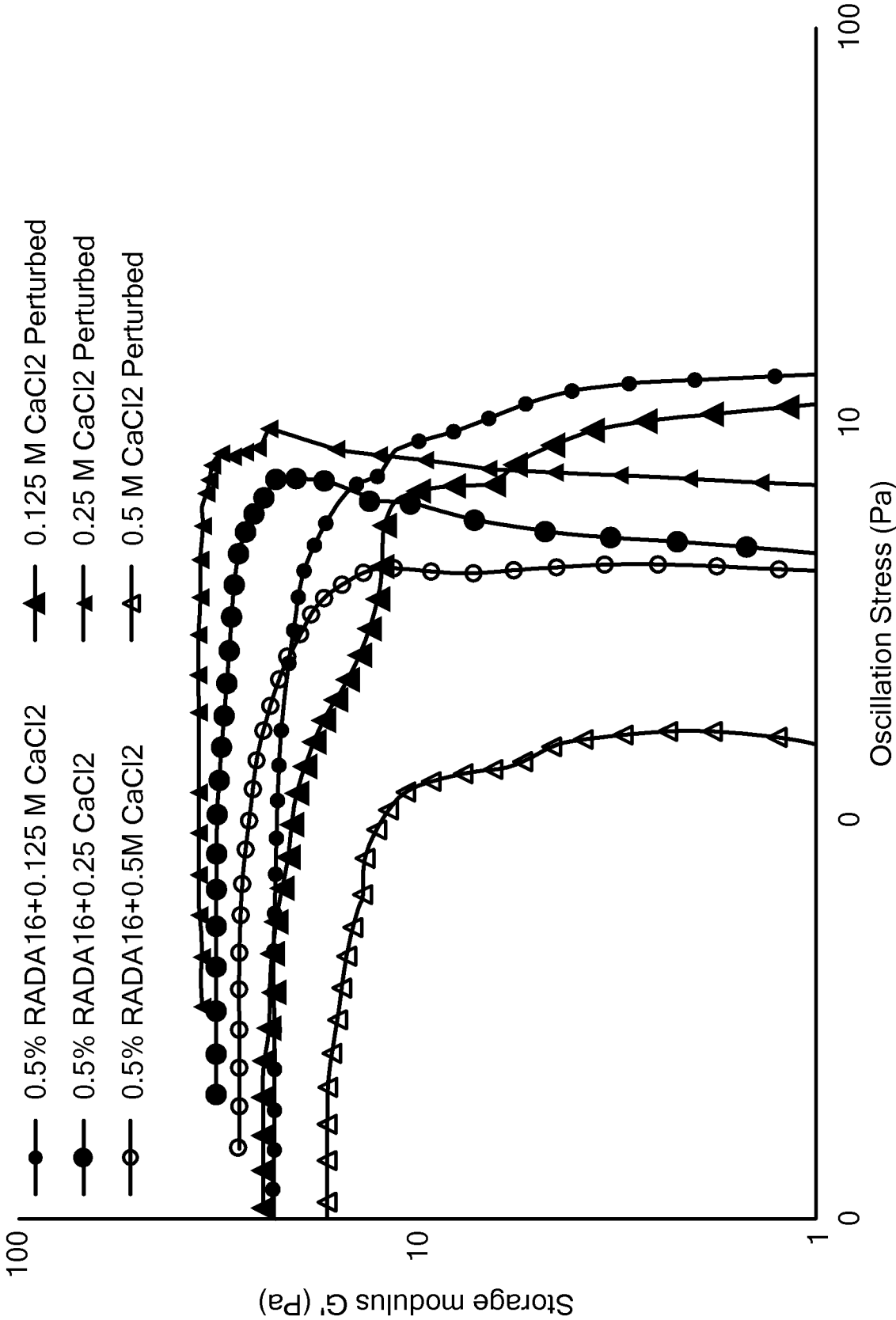


Figure 45A

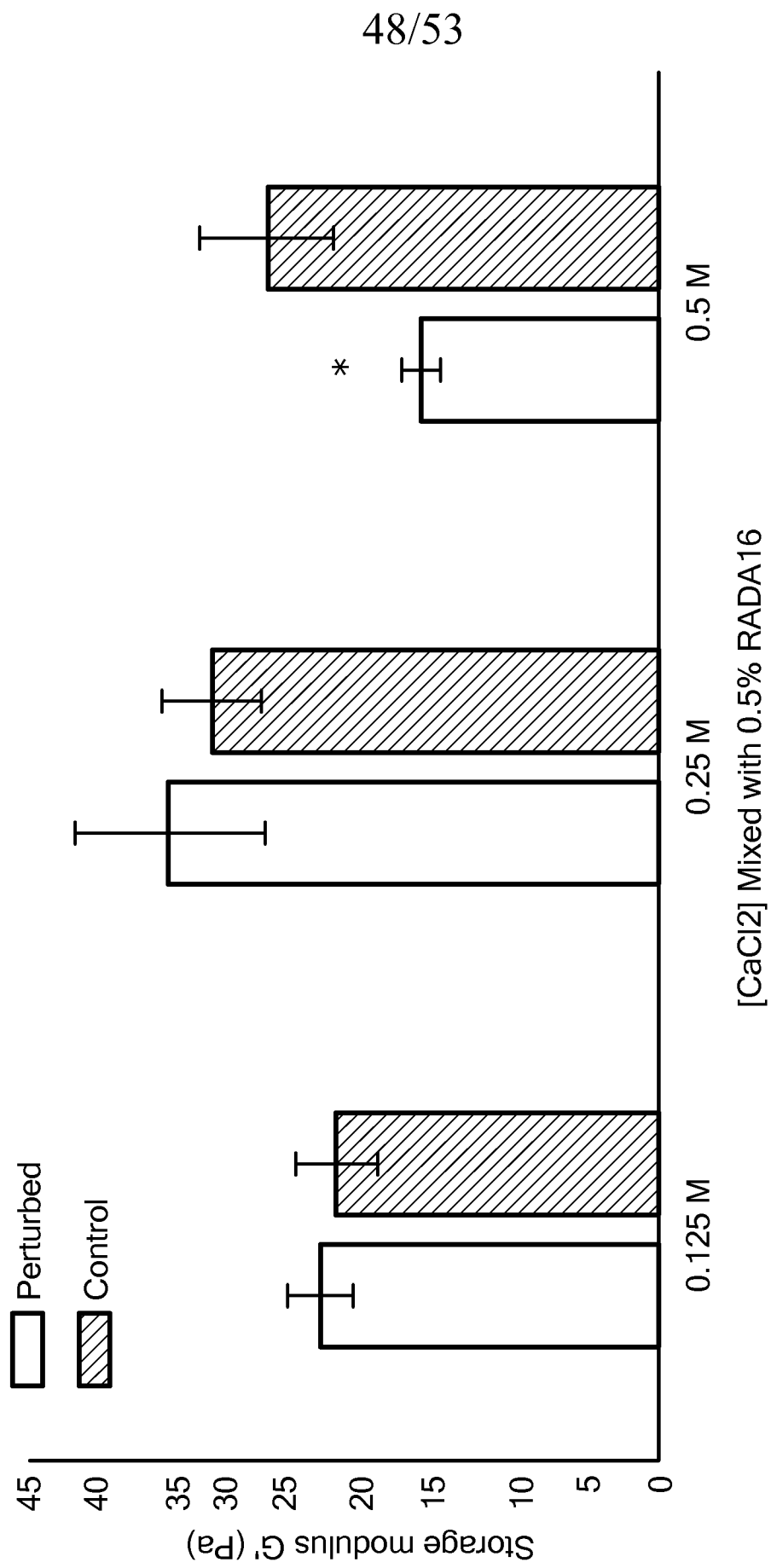


Figure 45B

49/53

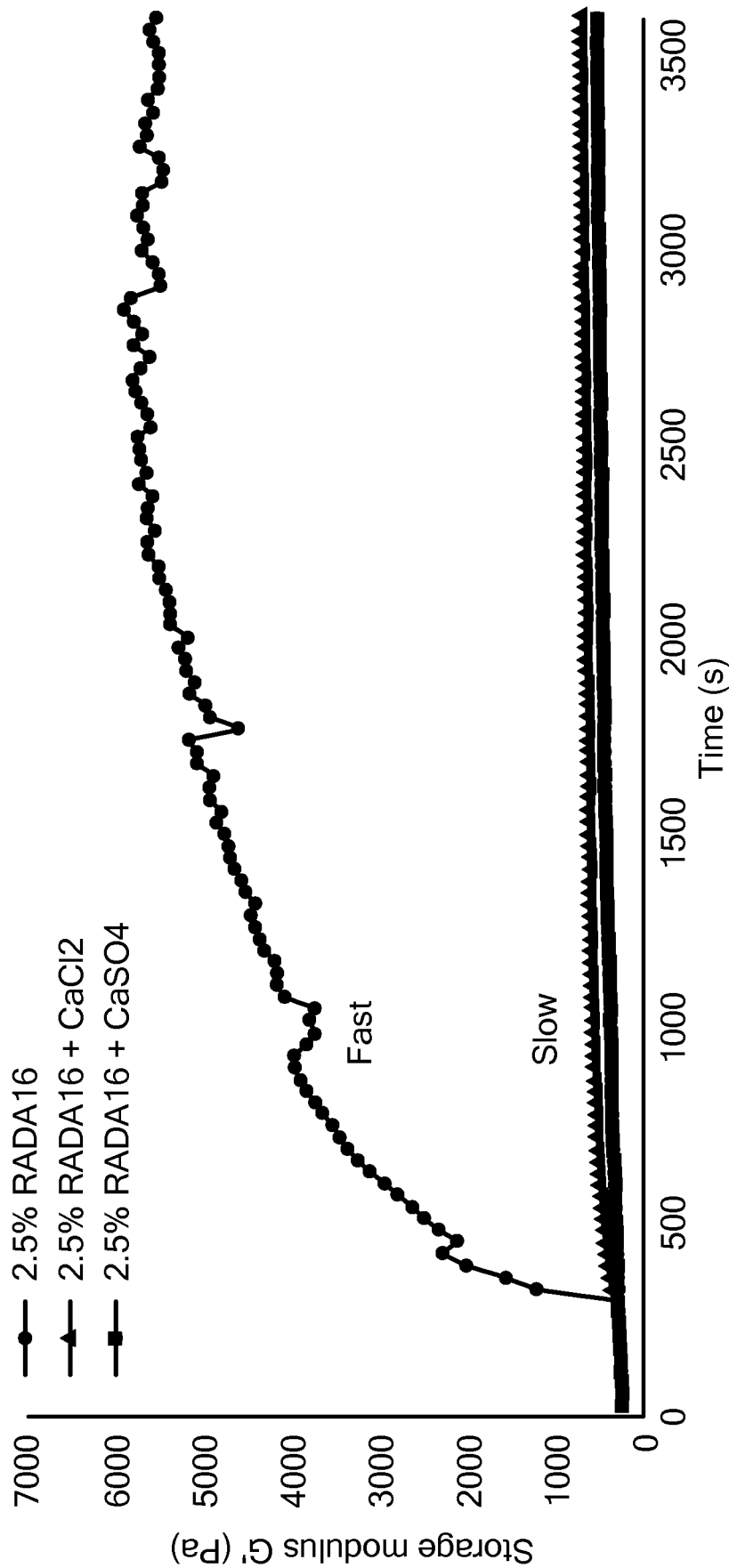


Figure 46

50/53

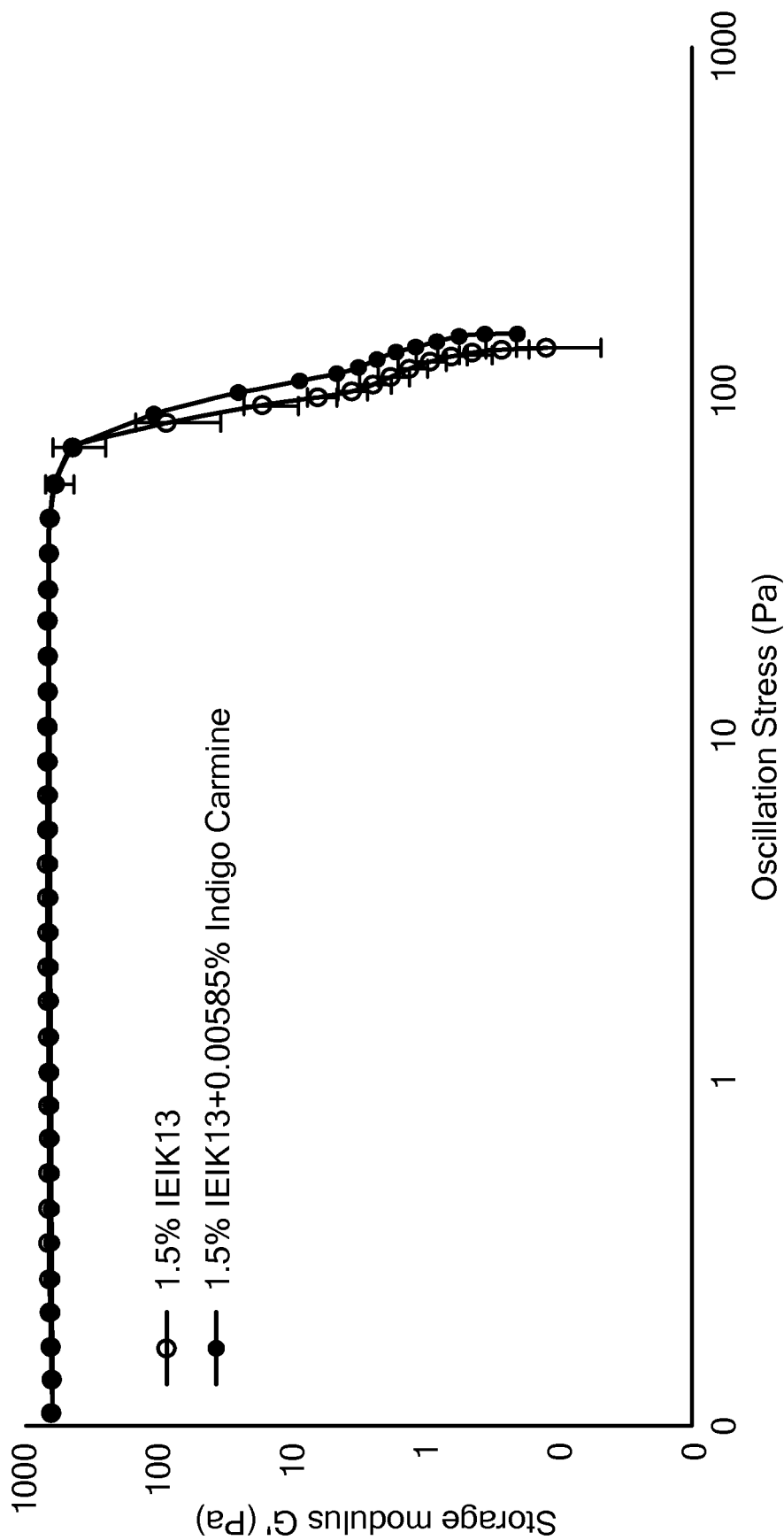
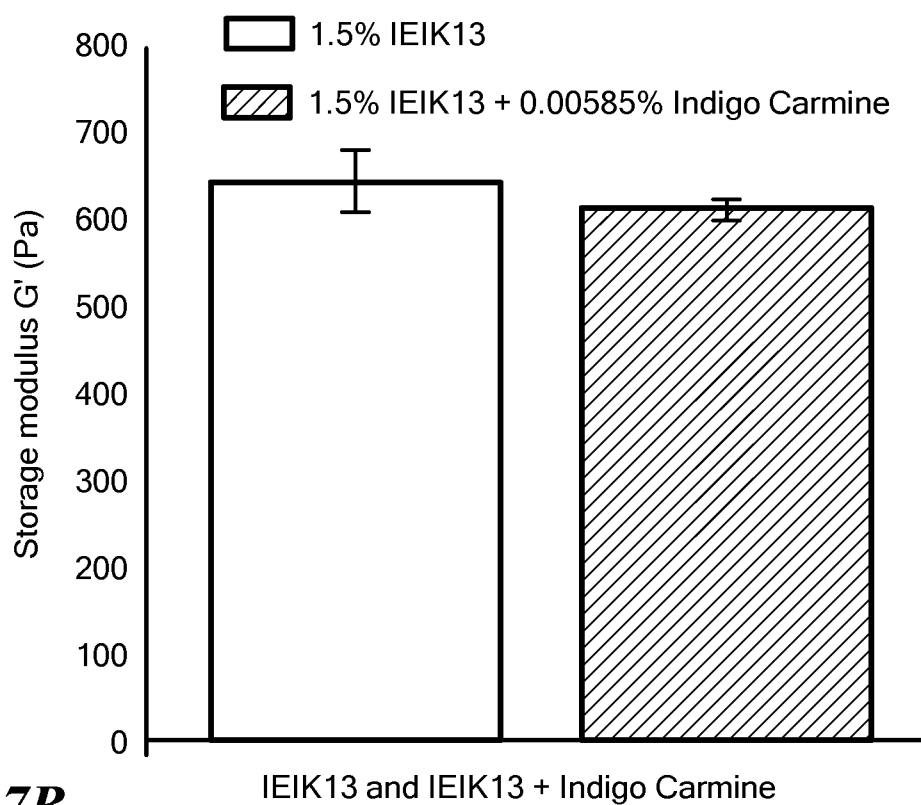
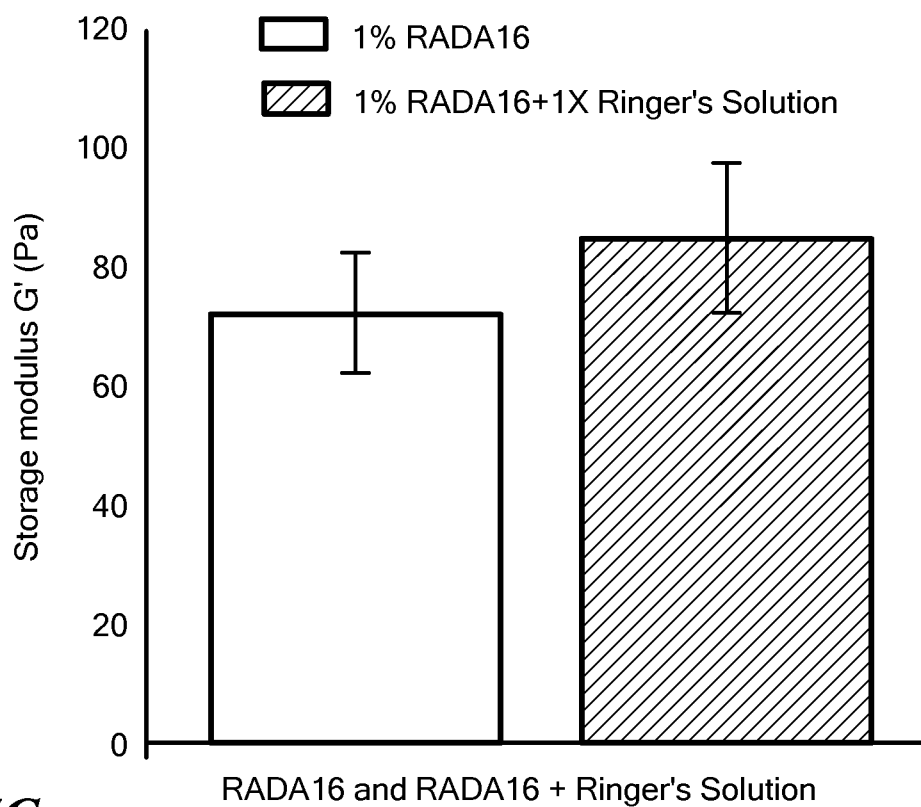


Figure 47A

51/53

**Figure 47B****Figure 47C**

52/53

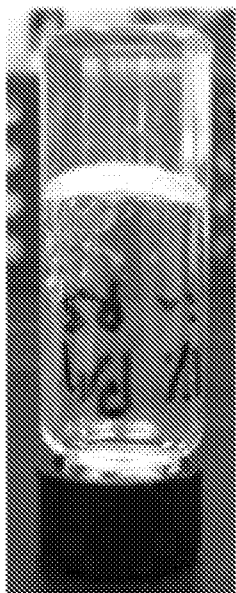


Figure 47D

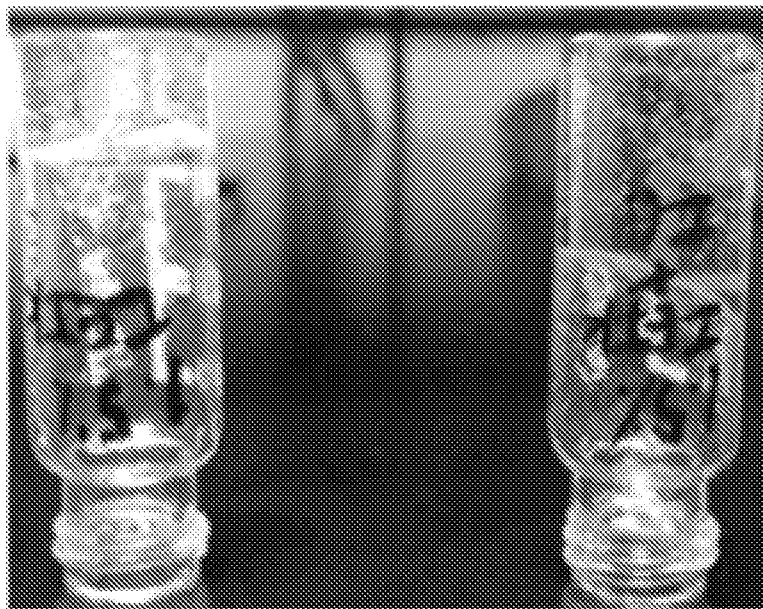


Figure 47E



Figure 47F

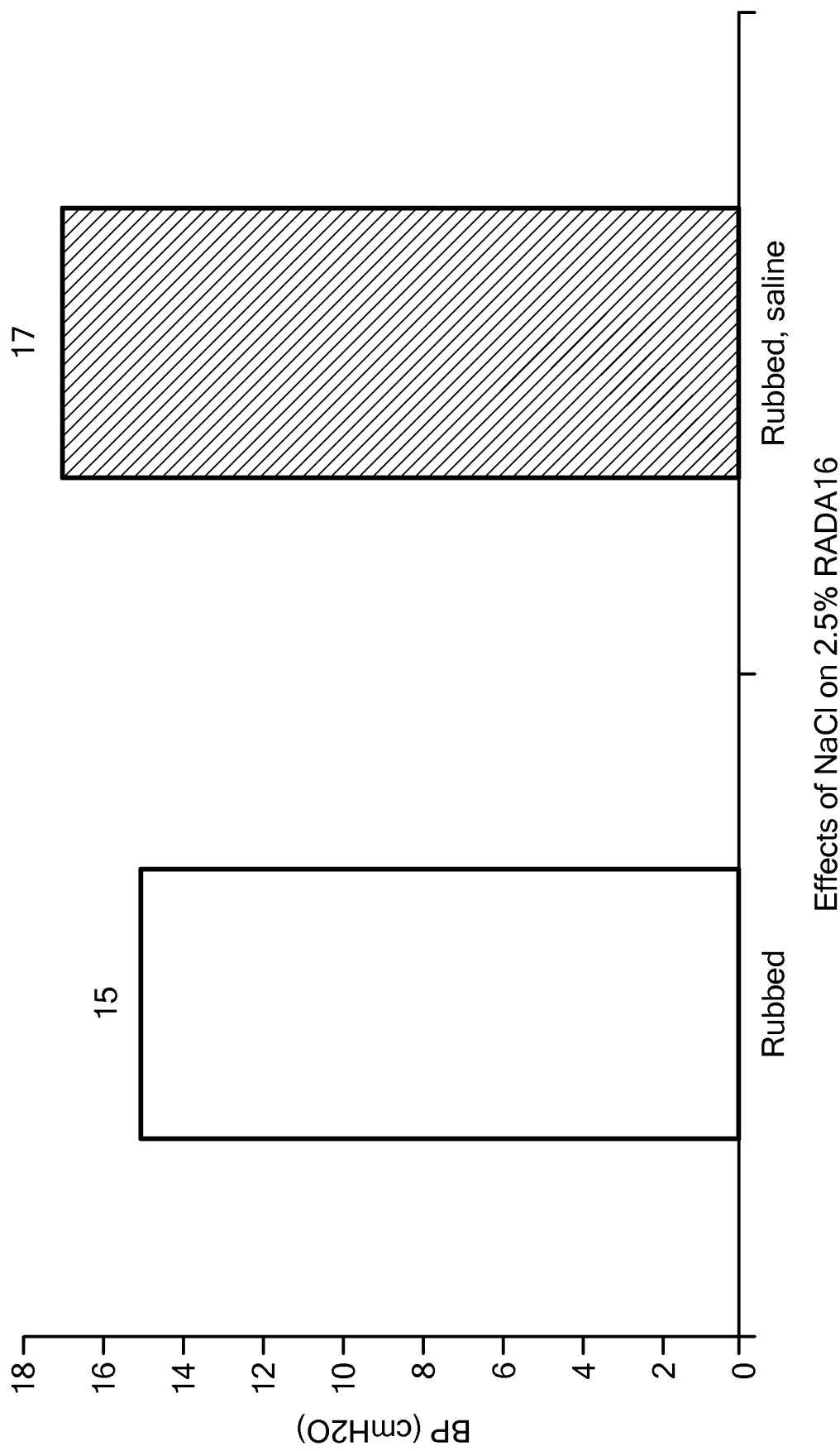


Figure 48