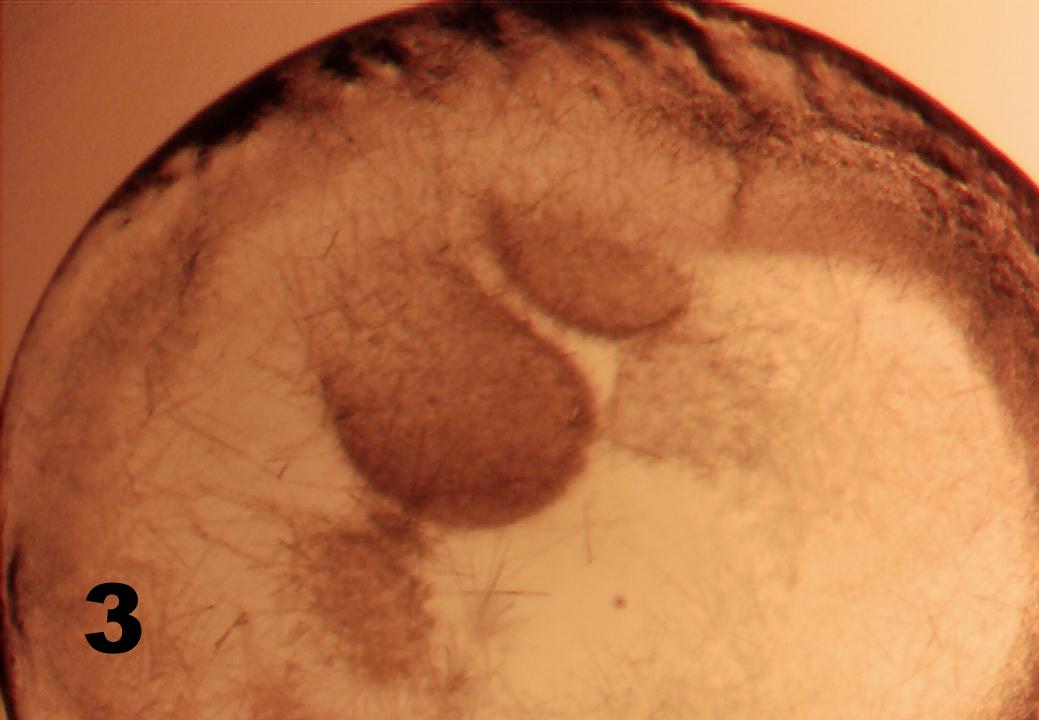
Training Set

Janet Newman, CSIRO, Melbourne Australia Terese Bergfors, Uppsala University, Sweden

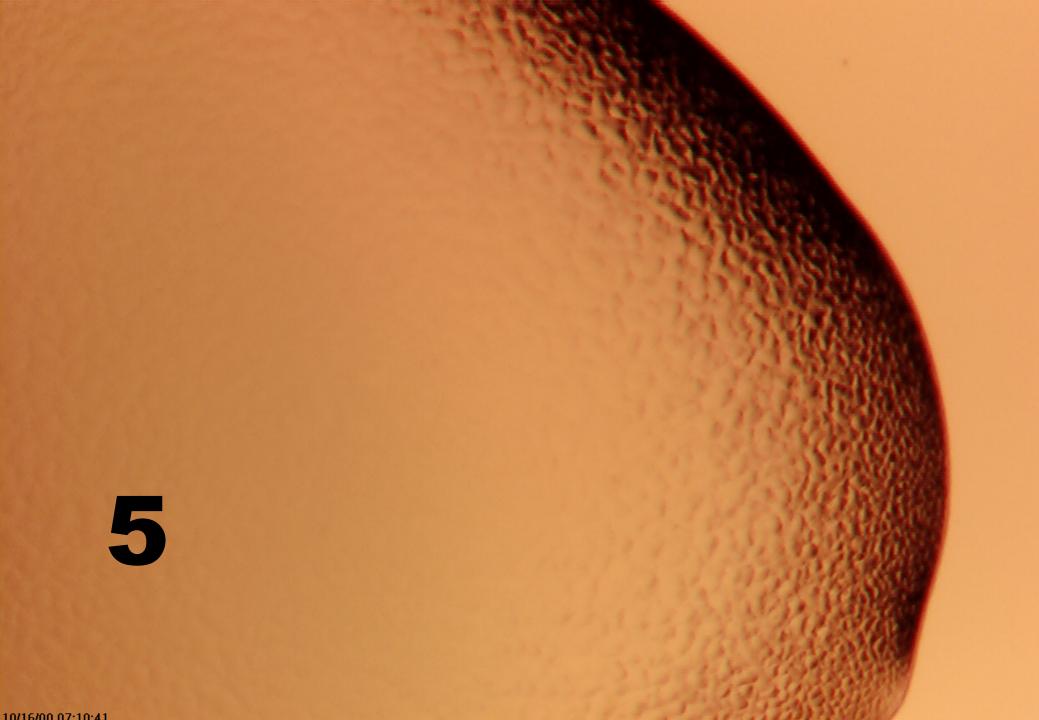
Here is a training set of ten pictures. Answers follow.

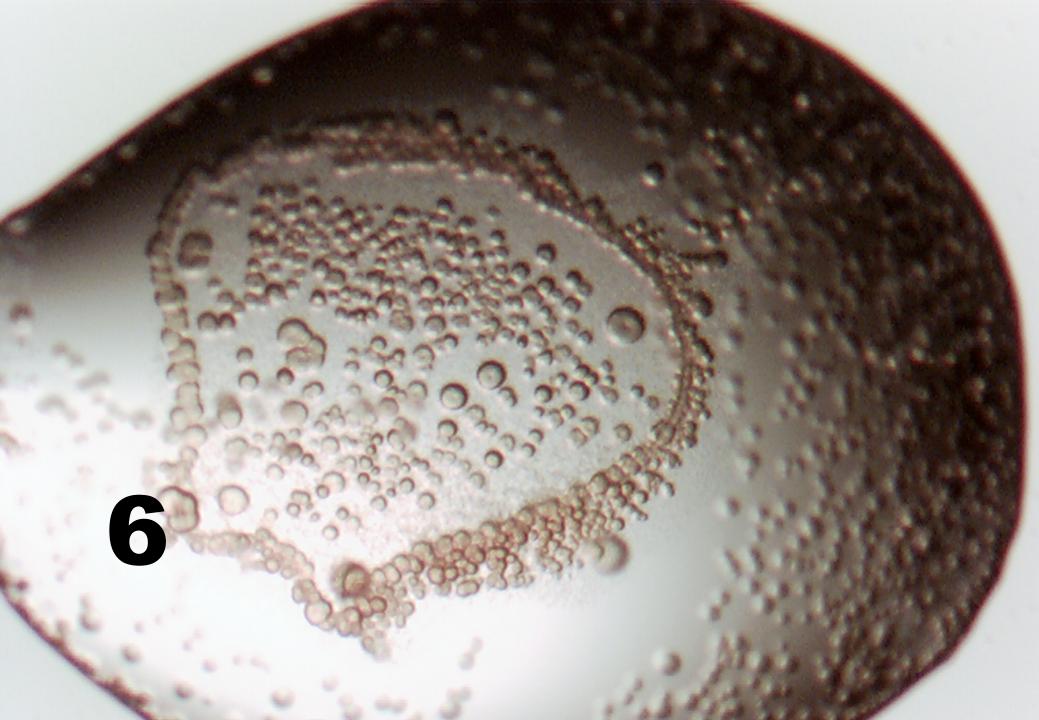


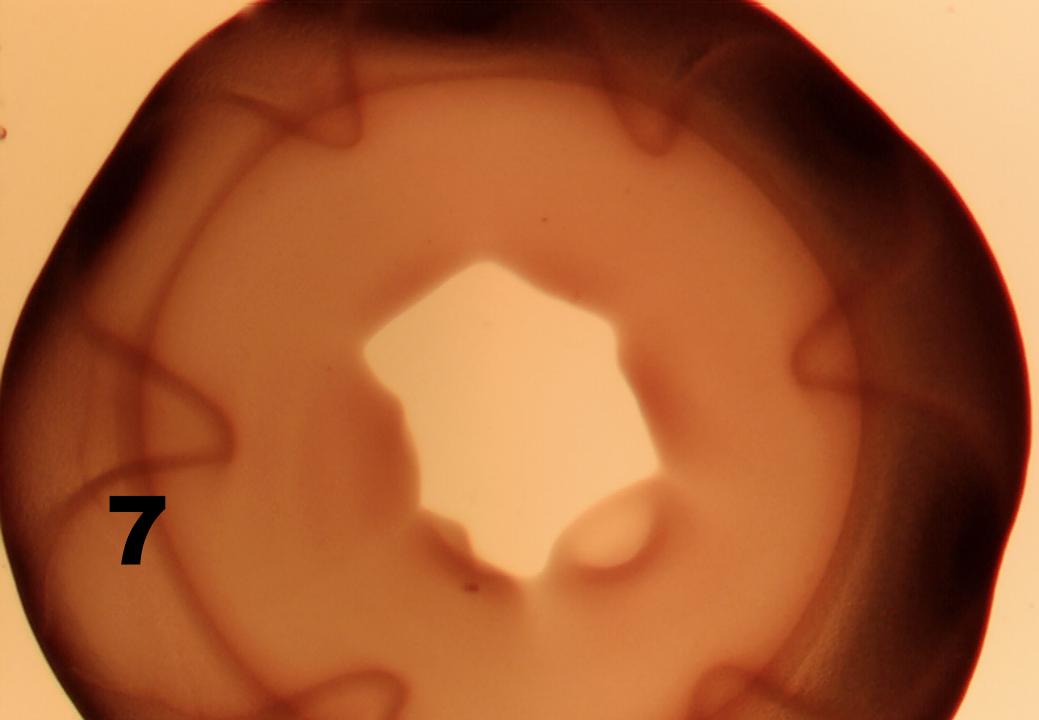








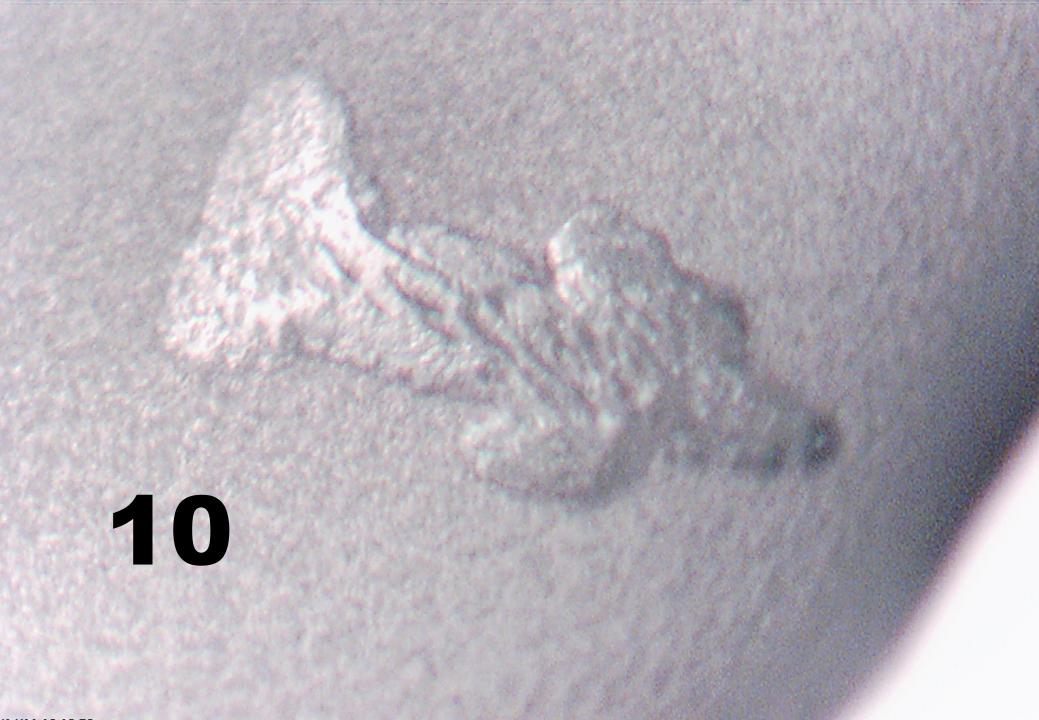




salt or protein?







Answers

Precipitate, promising

Look at the color of this precipitate. It is whitish, which is a good sign.

1

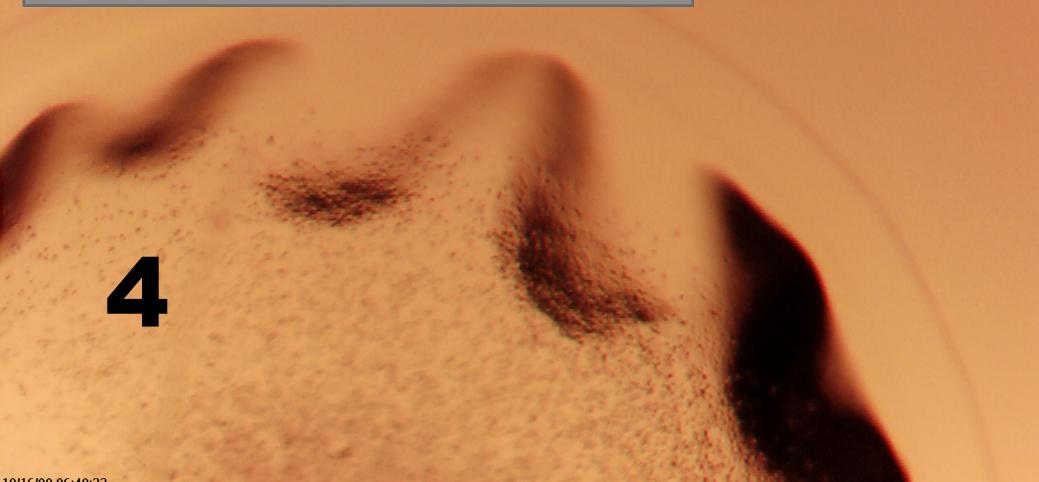
Look at the color of this precipitate.

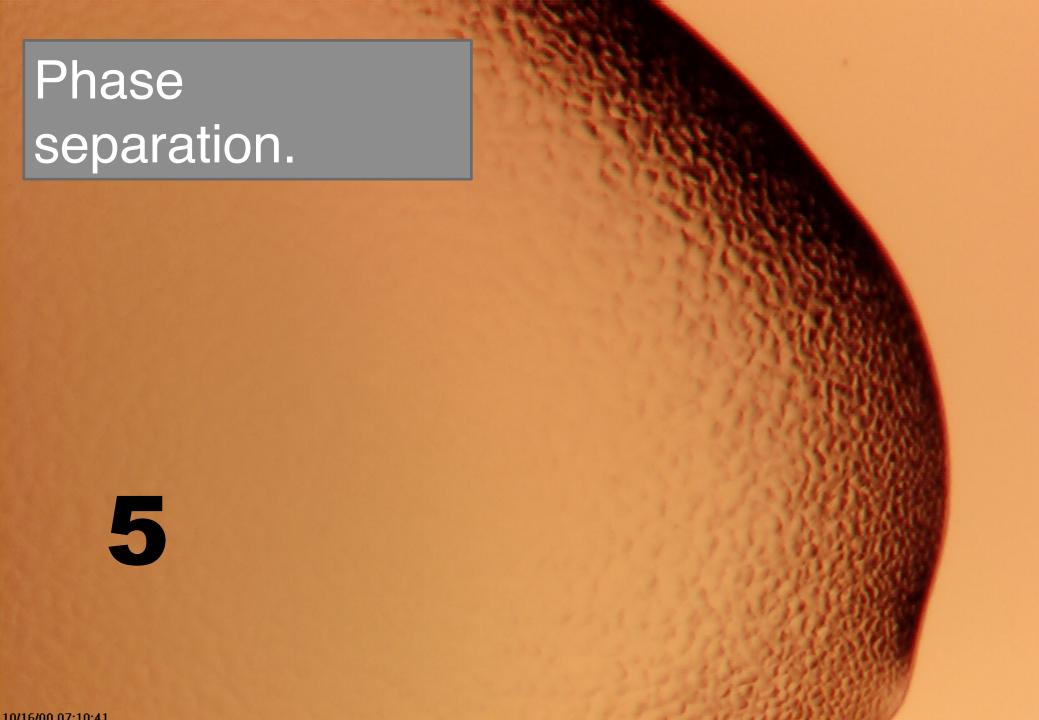
This nasty dark brown color probably means the protein is denatured, but you can never be sure. Check with UV that no microcrystals are lurking under the precipitate.

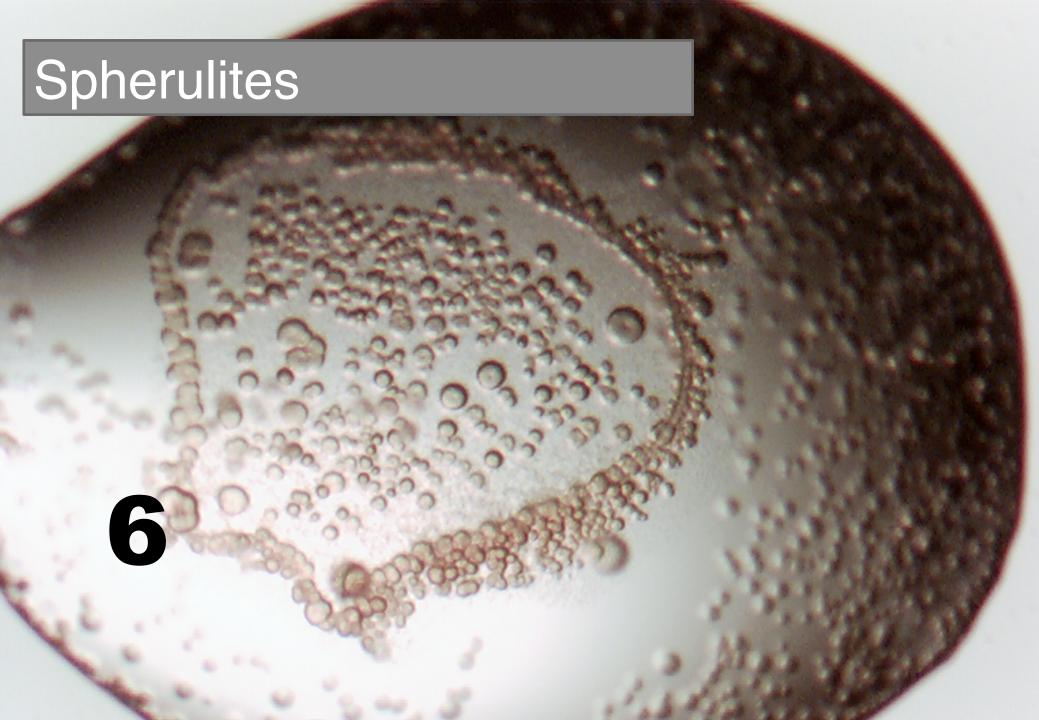
2

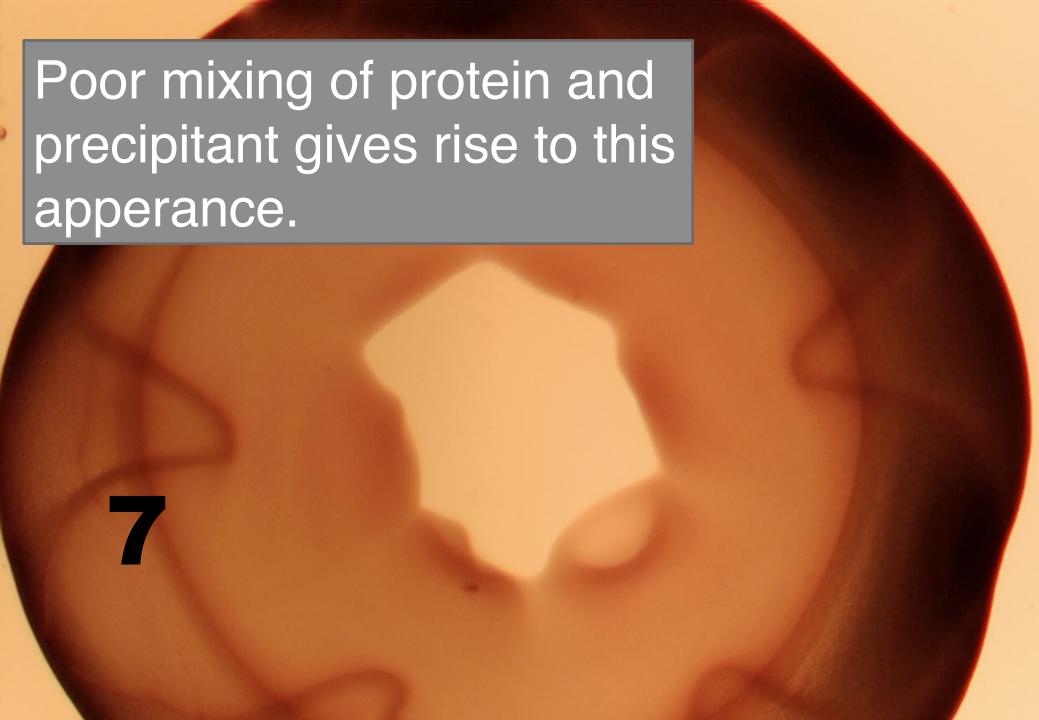


The drop is drying out at the edges. Amorphous precipitate.





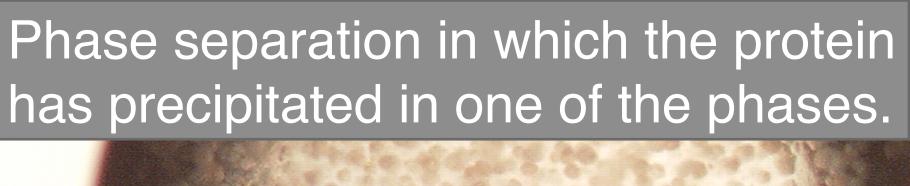


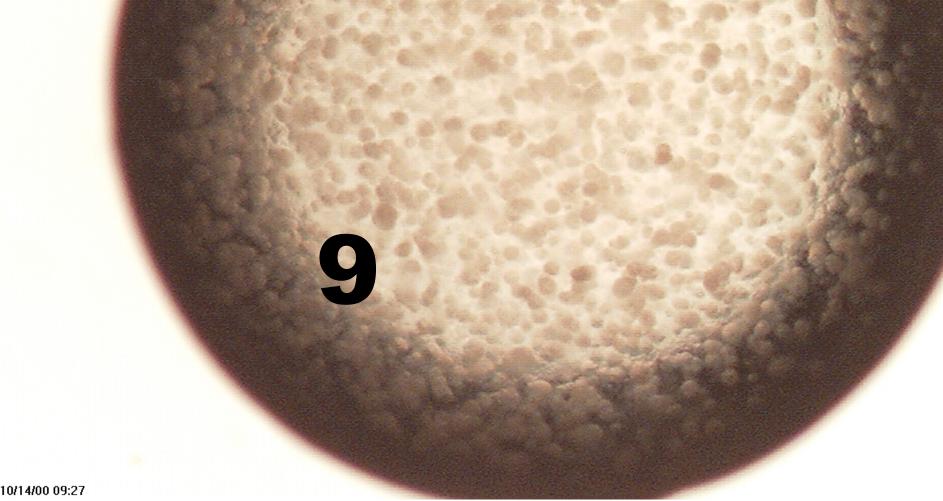


salt or protein?

8

It's salt. The protein has precipitated ON the salt crystals.







3Å. Moral of the story: put it in the beam no matter what it looks like.

more pictures at http://xray.bmc.uu.se/terese



Also, take a look at Janet's program Cinder Kinder

https://research.csiro.au/crystal/user-guide/c3-cinder/

It has 200 images for training. The images are scored as: clear, precipitate, other, or crystal.