



# Satisfactory and Unsatisfactory Newborn Screening Specimens



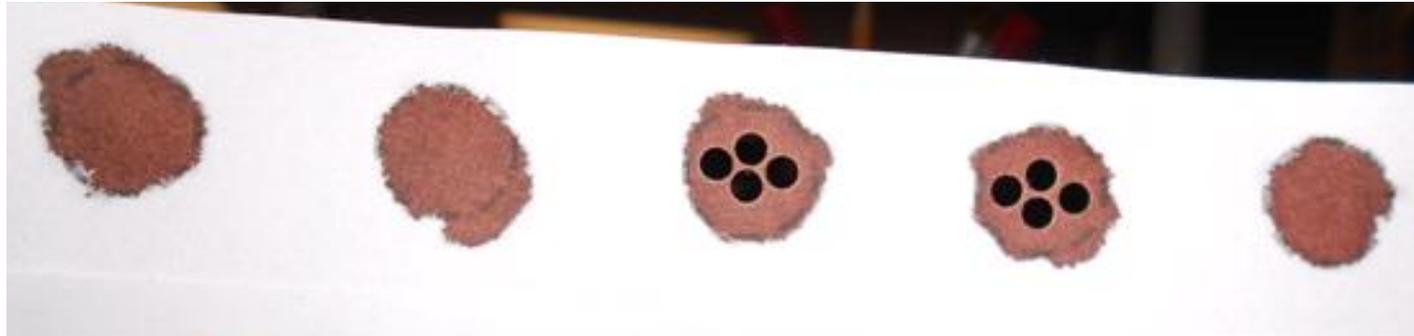
# Satisfactory Specimen



First run of tests-4 punches on each of 2 spots. Note the preset diamond pattern.



# Card Punches



13 or more punches may be made if additional testing is required



# Layered

The pictures on the next slide show specimens received by the lab that have more than one drop of blood applied to one or more circles. Tests are standardized based on a single layer of blood. Layering can result in either false positive or false negative determinations.



# Layered





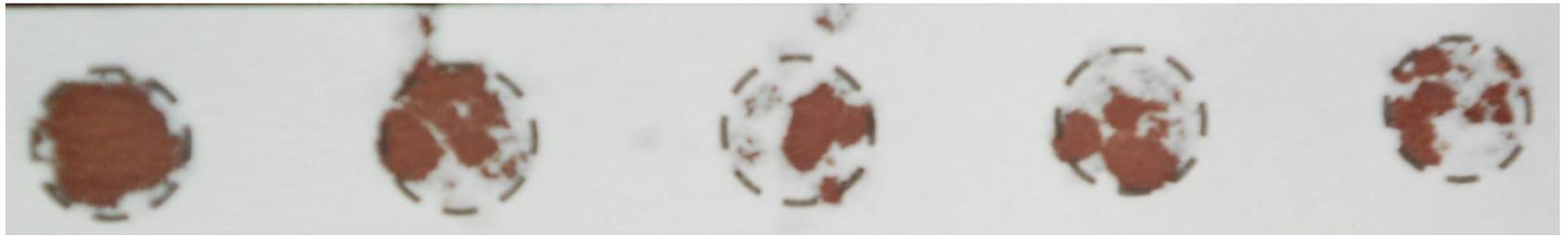
# Insufficient

Be sure to look at both sides of the card. The top specimen on the next slide shows that the blood did not soak all the way through to the back.

The lab needs to be able to make 13 punches in order for the specimen to be called sufficient. This ensures that enough blood is available for the initial tests and any needed repeat testing. The numbers below the middle and bottom specimen on the next slide show how many punches were available.



# Insufficient



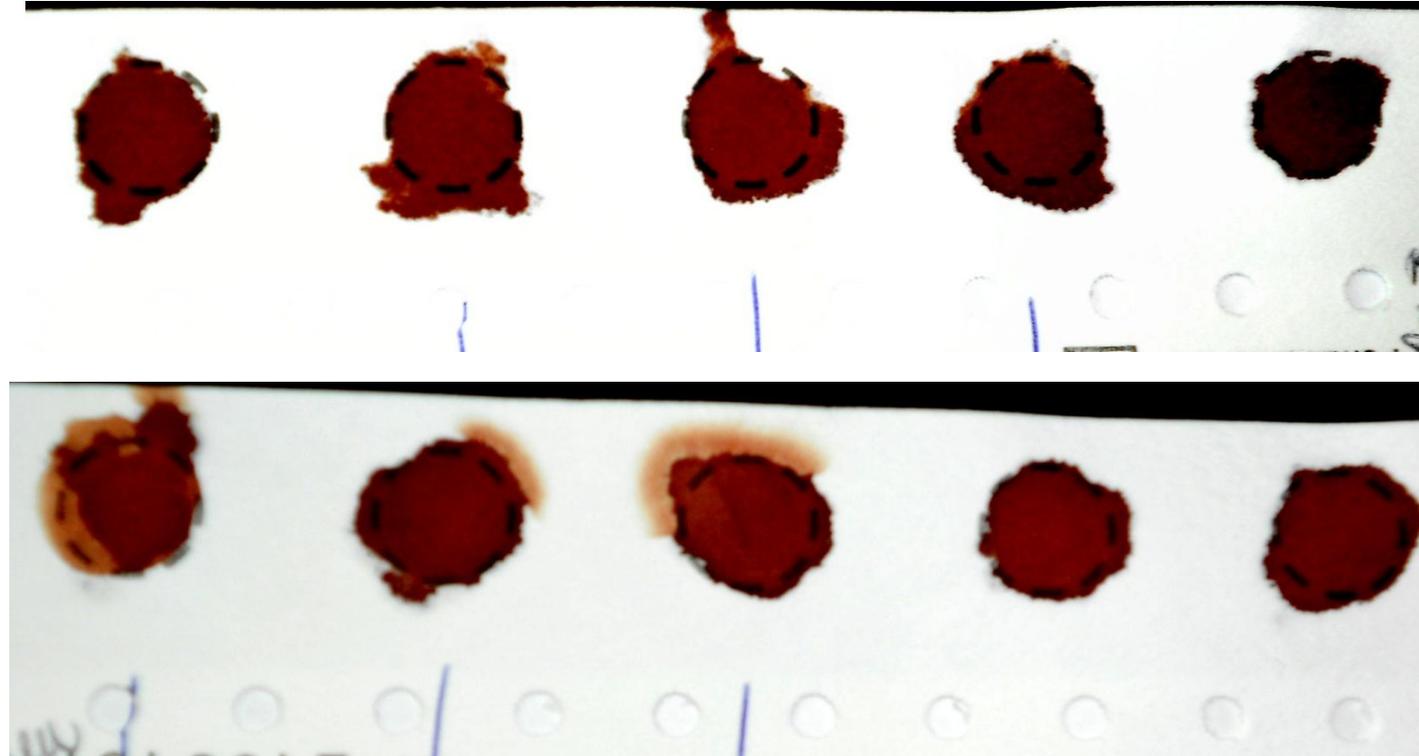


# Clotted





# Serum



The hash marks on these specimens indicate spots that cannot be used due to serum rings or contamination.

# Use of Capillary Tubes



1



2



3

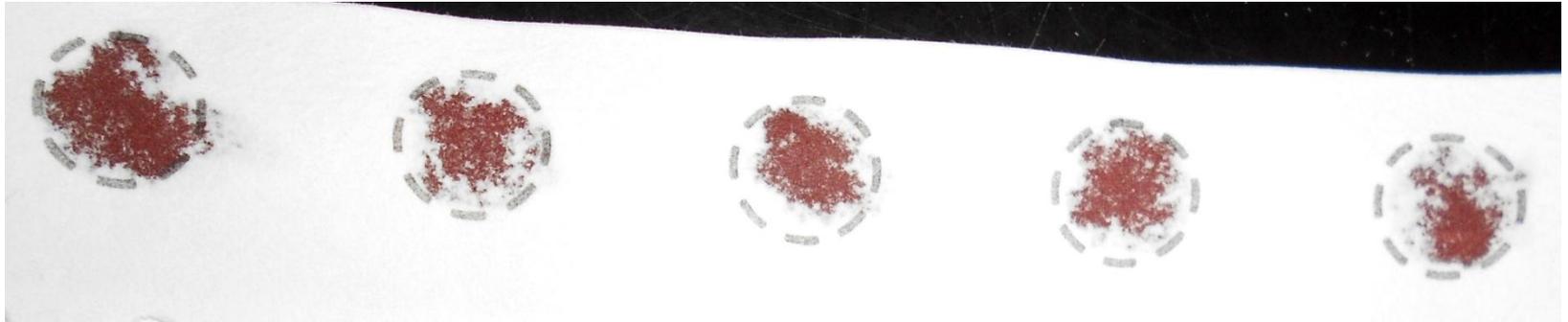


4

1. Swirl pattern caused by “painting” the circle using a capillary tube
2. Small circles show damage to the card caused by capillary tube
3. & 4. The capillary tube scraped the filter paper causing scratches and grooves; leaving behind clumps of bloody filter paper

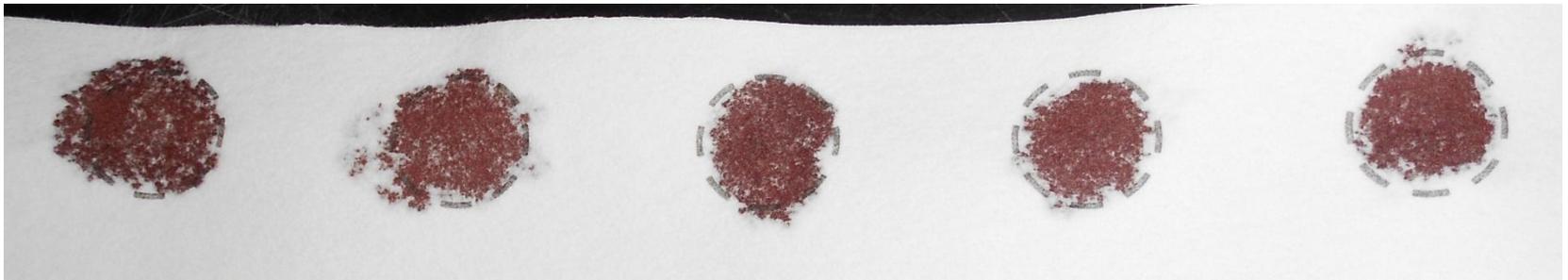


# Defective





# Defective



Front and back of the same card.  
Remember to examine both sides of the card  
for specimen quality.

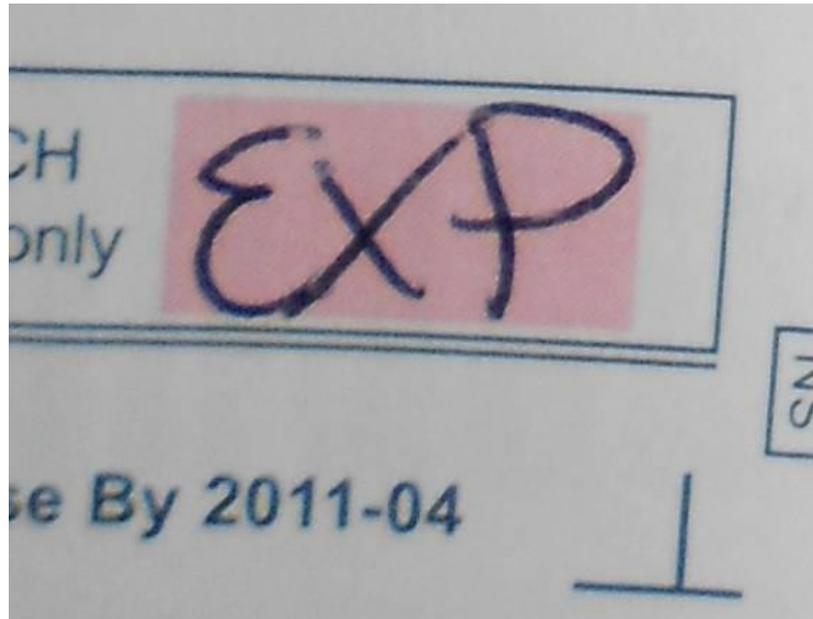


# Satisfactory/Defective





# Expired Cards



Recently expired cards have the expiration date in the lower right hand side of the card. If you don't see an expiration date there, start getting suspicious.