AIM : To identify that the given stain is urine

REQUIREMENTS : Test tube, beaker, measuring cylinder, dropper, weighing balance, hot plate

CHEMICALS REQUIRED : Picric Acid, 5% NaOH Solution

THEORY

Creatinine reacts with picric acid in an alkaline solution to form a orange colored complex known as

creatinine picrate. This test is also known as Jaffe’s Test.

PROCEDURE

1. Cut small sections of the suspected stain and an unstained control area and place

on filter paper.

2. To each, add 1 drop of saturated picric acid solution followed by 1 drop of 5% NaOH.

3. An orange coloration after 15 minutes on the questioned stain and surrounding filter paper is due to

creatinine picrate and is considered a positive result. The control area should remain yellow. This test is

not confirmatory for urine.

OBSERVATION

Orange color is formed on the filter paper.

CONCLUSION

The suspected stain might be urine.