

**Blood?**

Is it blood?

DNA

Fingerprints

Fibre Analysis

Poison

Blood

# Presumptive Tests for Blood

1

Benzidine test



No longer used



Toxic

# Presumptive Tests for Blood

1 Benzidine test

2 Kastle-Meyer test



Phenolphthalein

# Presumptive Tests for Blood

1 Benzidine test

2 Kastle-Meyer test

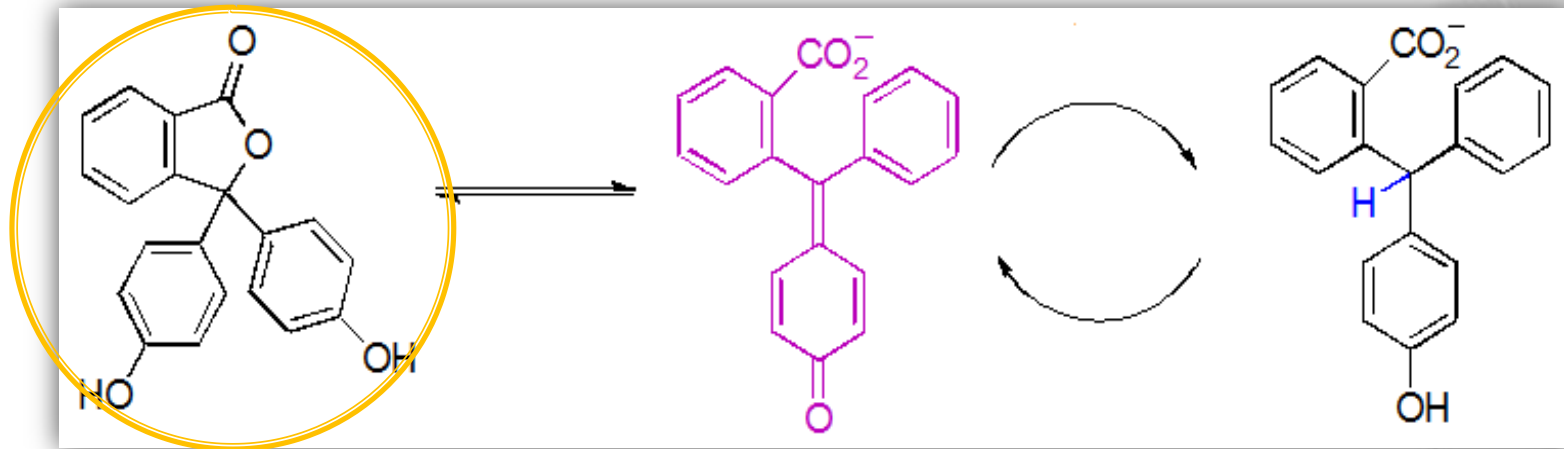
3 Luminol test

# Presumptive Tests for Blood

Based on peroxidase properties of blood



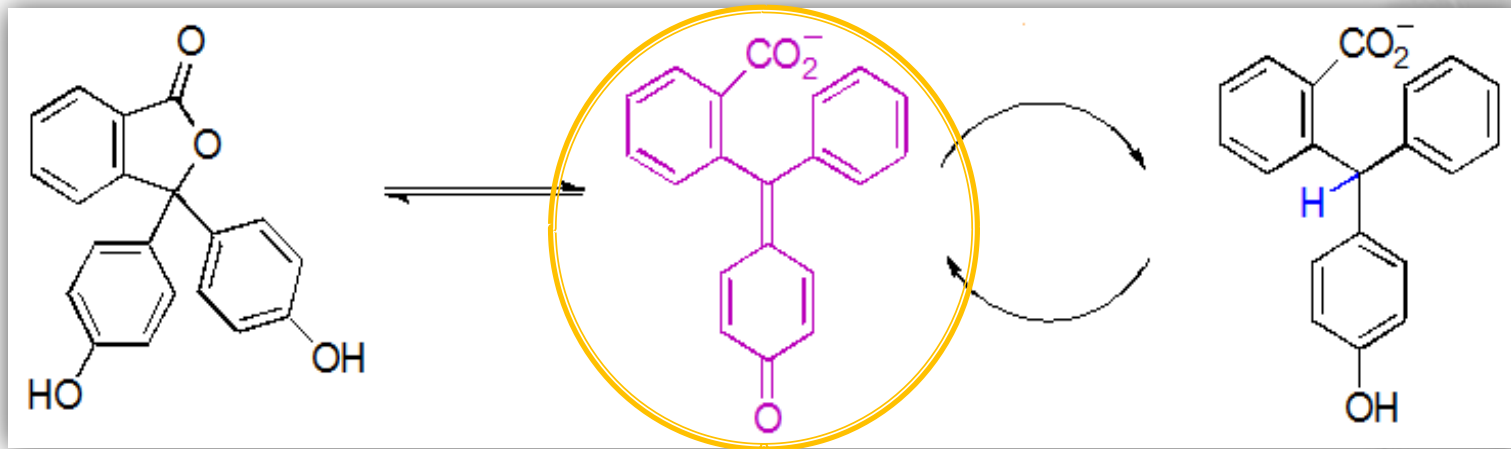
# Kastle-Meyer Test



Acid form

Colourless

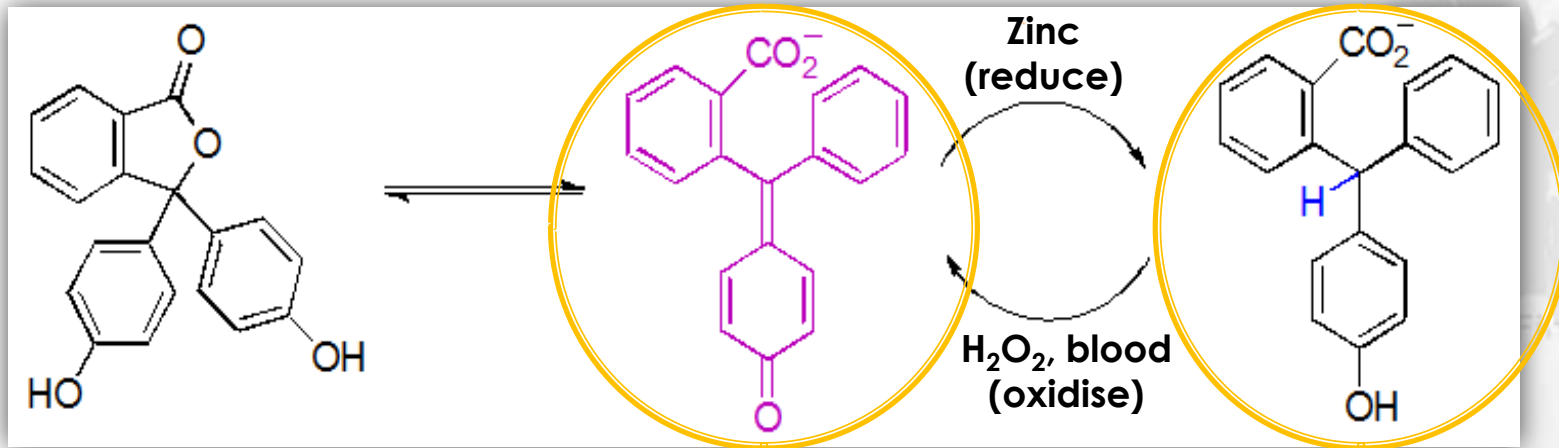
# Kastle-Meyer Test



Alkali form

Pink

# Kastle-Meyer Test



Alkali form

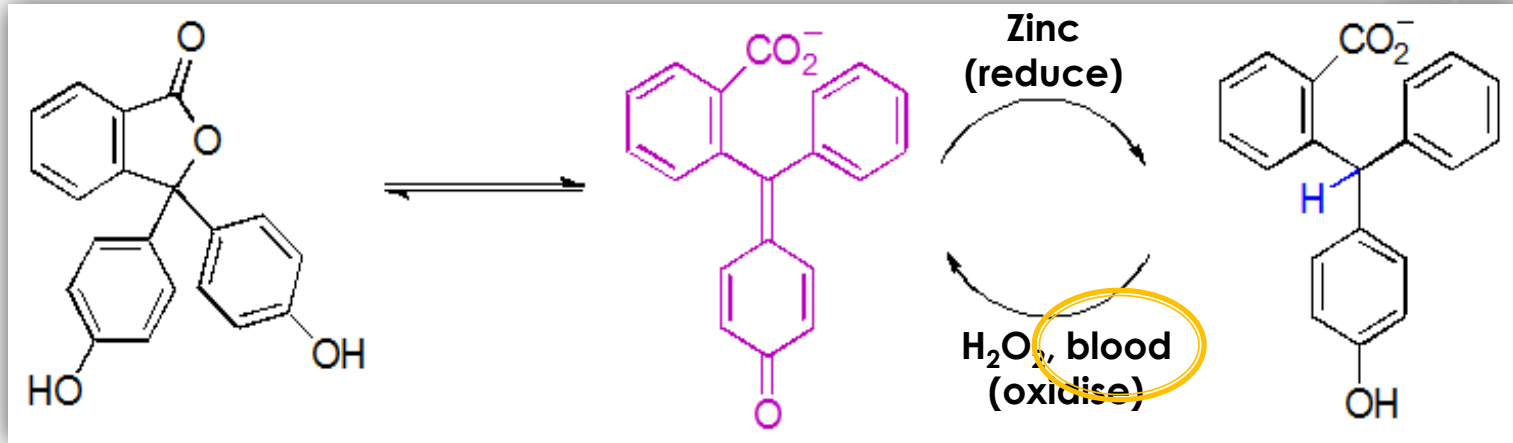
Pink

Reduced form

Colourless



# Kastle-Meyer Test



# Kastle-Meyer Test

Suspected bloodstain

1 Add reduced phenolphthalein

2 Add  $\text{H}_2\text{O}_2$



Turn pink



Most likely blood

# Kastle-Meyer Test

Powerful enzymes in potatoes



Catalyst for reaction



Turn pink



“False positive”

DNA

Fingerprints

Fibre Analysis

Poison

Blood