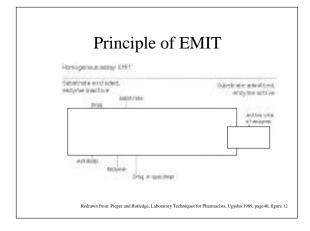
Enzyme Multiplied Immunoassay  EMIT	
Enzyme Multiplied Immunoassay  • Separation using the specificity of antibody - antigen binding • Quantitation using enzyme reaction	
<ul> <li>EMIT - Components of the Assay</li> <li>Drug</li> <li>Antibody</li> <li>Substrate</li> <li>Enzyme bound to drug</li> <li>Quantitate by measuring enzyme-substrate reaction (by UV - visible spectroscopy)</li> <li>Determine standard curve</li> </ul>	



## Procedure

- Mix sample containing drug with fixed quantity of enzyme bound drug, and antibody
- · Add substrate
- Measure absorbance at 15 and 45 seconds after substrate addition
- Absorbance > Reaction rate > Drug concentration
- Non linear relationship between Absorbance and Concentration

## Using Glucose-6-phosphate Dehydrogenase Redrawn from: Peper and Reliege, Laboratory Techniques for Pharmackis, Upphat 1989, page41, figure 13