

ACTIVITY 5

COMPOUND IDENTIFICATION OF UNKNOWN
DRUG SAMPLES USING PHYSICAL PROPERTIES

PHYSICAL PROPERTIES

1. QUALITY ASSURANCE

- Detection of physical changes
 - Presence of all contaminants and instability are a sign of poor quality

2. STABILITY ASSESSMENT

- Monitor and assess stability
 - Emulsion (separation of oil and water) is a detection of instability

3. EARLY DETECTION OF CONTAMINATION

- Reveal the presence of contaminants/impurities
 - The formation or presence of molds and/or precipitations is an early detection of contamination

4. BATCH TO BATCH CONSISTENCY

- Same quality within batches
 - Batch no. - series of numbers
 - Lot no. - portion of the batch

SOLUBILITY

PRINCIPLE

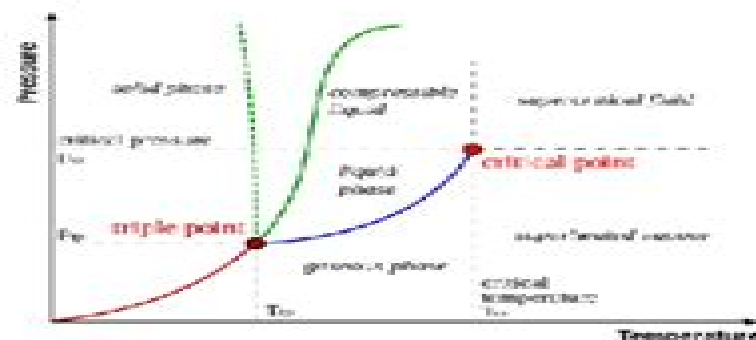
- Like dissolves like meaning polar solutes dissolve in polar solvents
- Solubility product (K_{sp})
 - Solubility product constant
 - indication to determine if a sample is contaminated but it should not be the sole basis to determine it
 - K_{sp} values are found in pharmacopoeias
 - $S_x = 2.00 \rightarrow K_{sp} = 1.6$
 - it means that S_x is contaminated because it does not match the one in the pharmacopoeia
- What is reflected in the USP are pure substances

PURPOSE

- Formulation Development
 - Properly formulate drugs and maximize intended effects by incorporating excipients
- Drug Delivery Systems
 - Desired drug release profiles
- Bioavailability
 - Solubility and absorption

MELTING-POINT RANGE

"The temperature from the point at which solid first begins to liquify to the point at which the entire sample is liquid."



PRINCIPLE

- Eutectic Point (Solid to Liquid)
 - Lowest temperature where phase transformation is observed
- Phase Transition (Solid to Liquid)
 - Very narrow temperature range

Kinetic Energy and IMFA

- Inversely proportional (increased KE, decreased IMFA)

Triple Point

- Where solid, liquid and gas will exist simultaneously

Critical Point

- Difficult for liquid to be converted into gas state

Supercritical Fluid

- Impossible to convert liquid into its gas state (high pressure)

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