113L

CHEMISTRY LAB

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
- 9. 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 au ali ty within batches
 - Botch no. series of numbers.
 - Lot no. portion of the batch

SOLUBILITY

PRINCIPLE

- Like dissolves like meaning polar solutes dissolve in polar solvents
- Solubility product (Ksp)
 - Solubility product constant
 - Indication to determine if a sample is contaminated but it should not be the sole basis to determine it
 - Ksp values are found in pharmacopeias
 - Sx = 2.00 -> Ksp = 1.6
 - It means that Sx is contaminated because it does not match the one in the pharmacopeia
 - What is reflected in the USP are pure substances

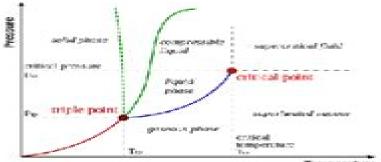
MIDTERMS

PURPOSE

- Formulation Development
- Properly formulate drugs and maximize intended effects by incorporating excipients
- 2. Drug Delivery Systems
- Desired drug release profiles
- 3. Biografiability
- 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."



Termonie reductor

PRINCIPLE

- 1. 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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