Welcome to the CAPTISOL® EXPERIENCE
“Laboratory” Demonstration
Proprofol Emulsion: The Problem Statement

DIPRIVAN® Injectable Emulsion

- AstraZeneca branded propofol for anesthesia/sedation
- Generic Market ~$500 MM US
- Issues:
  - Oil-based: Supports microbial growth
  - Preservatives(s)/egg lecithin: Common allergens
  - Sterile Manufacturing of Emulsions: Increased costs, quality issues, batch failures
Captisol-enabled® Propofol

LAB STATION #1

- Start Stirrer
  - Dial reading 7-9 and back-off, slightly
- Create/Adjust Vortex (i.e. “Tornado in a Jar”)
- Add Propofol Oil to Captisol®-containing Vortex
- Stand-Back & Observe (patience)
LAB STATION #2: Control

- Start Stirrer
  - Dial reading 7-9 and back off, slightly
- Create/Adjust Vortex
- Add Propofol Oil to Vortex
- Observe
Budesonide Respules: The Problem Statement

Pulmicort® Respules

- Marketed by AstraZeneca for asthma

- Market reached ~ $1 B in US

- Issues:
  - Suspension
    - Dose variation
  - Onerous particle size/control
  - Expensive manufacturing challenges

- Delivery takes 10-20 minutes!
LAB STATION #3: Pulmicort® Respule

- Swirl Plastic Ampule 30 seconds
- Break-off Top
- Squeeze Slowly into Glass Vial
- Observe
LAB STATION #4: Captisol-enabled® Budesonide Respules

- Swirl Plastic Ampule 30 seconds
- Break-off Top
- Squeeze Slowly into Glass Vial with Captisol®
- Shake 1 minute
- Observe and compare
Captisol-enabled® Budesonide Respules

Captisol-enabled® Budesonide Inhalation Solution

- Solution vs. Suspension
  — More reproducible dosing
- Made by conventional manufacturing methods
- Creates dose sparing opportunities
- Wider nebulizer compatibility
- **Faster Delivery:** ~ 1 Minute vs. 10-20 Minutes
Captisol-enabled® Propofol

- Fat-free, clear, dilutable solution
- Allergen-Free: no sulfites/no egg lecithin
- Made via conventional Manufacturing
- Superior Stability
Thank you for joining the CAPTISOL® EXPERIENCE