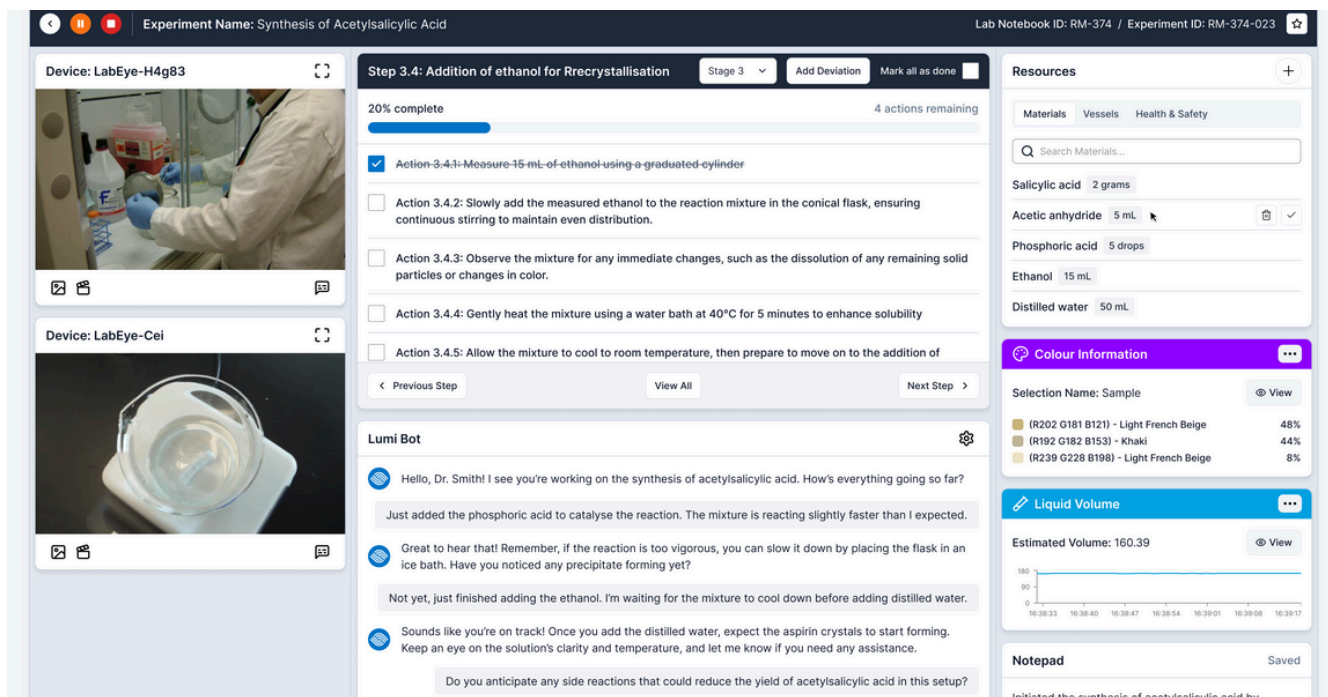


Visual Lab

Accelerate discovery & ensure compliance with Visual Lab



The screenshot displays the Visual Lab interface for an experiment titled "Synthesis of Acetylsalicylic Acid". The interface is divided into several sections:

- Top Bar:** Shows the experiment name, Lab Notebook ID (RM-374), and Experiment ID (RM-374-023).
- Left Panel:** Contains two video feeds. The top one is labeled "Device: LabEye-H4g83" and shows a person in a lab coat working. The bottom one is labeled "Device: LabEye-Cei" and shows a close-up of a glass flask.
- Central Panel:** Displays "Step 3.4: Addition of ethanol for Recrystallisation" at "Stage 3". It shows a progress bar at 20% complete and a list of actions:
 - Action 3.4.1: Measure 15 mL of ethanol using a graduated cylinder.
 - Action 3.4.2: Slowly add the measured ethanol to the reaction mixture in the conical flask, ensuring continuous stirring to maintain even distribution.
 - Action 3.4.3: Observe the mixture for any immediate changes, such as the dissolution of any remaining solid particles or changes in color.
 - Action 3.4.4: Gently heat the mixture using a water bath at 40°C for 5 minutes to enhance solubility.
 - Action 3.4.5: Allow the mixture to cool to room temperature, then prepare to move on to the addition of...
- Right Panel:** Contains several utility sections:
 - Resources:** Lists materials like Salicylic acid (2 grams), Acetic anhydride (5 mL), Phosphoric acid (5 drops), Ethanol (15 mL), and Distilled water (50 mL).
 - Colour Information:** Shows a selection name "Sample" and a color analysis table:

(R202 G181 B121) - Light French Beige	48%
(R192 G182 B153) - Khaki	44%
(R239 G228 B198) - Light French Beige	8%
 - Liquid Volume:** Shows an estimated volume of 160.39 mL and a corresponding line graph.
 - Notepad:** Contains the text "Initiated the synthesis of acetylsalicylic acid by".
- Lumi Bot:** A chat interface with a bot named "Lumi Bot" providing assistance:
 - Message 1: "Hello, Dr. Smith! I see you're working on the synthesis of acetylsalicylic acid. How's everything going so far?"
 - Message 2: "Just added the phosphoric acid to catalyse the reaction. The mixture is reacting slightly faster than I expected."
 - Message 3: "Great to hear that! Remember, if the reaction is too vigorous, you can slow it down by placing the flask in an ice bath. Have you noticed any precipitate forming yet?"
 - Message 4: "Not yet, just finished adding the ethanol. I'm waiting for the mixture to cool down before adding distilled water."
 - Message 5: "Sounds like you're on track! Once you add the distilled water, expect the aspirin crystals to start forming. Keep an eye on the solution's clarity and temperature, and let me know if you need any assistance."
 - Message 6: "Do you anticipate any side reactions that could reduce the yield of acetylsalicylic acid in this setup?"

Visual Lab is tailored to accelerate discovery and ensure compliance by providing comprehensive visibility into laboratory processes. It delivers real-time data insights for immediate process optimization, detailed experiment analysis, and pattern recognition to enhance R&D and project planning.

Visual Lab ensures error-proof compliance through real-time protocol adherence and deviation tracking, accurate video-based record-keeping, and actionable insights. With automated workflow monitoring, Visual Lab logs every action, enabling efficient SOP development and seamless knowledge transfer.

Visual Lab

Accelerate discovery & ensure compliance with Visual Lab

Gain full visibility into your lab to harness 100% of your data

- Real-time data insights for immediate process optimisation to solve issues.
- Detailed analysis of experiment structure and outcomes.
- Pattern and trend recognition to enable R&D optimisation and efficient project planning.

Track protocol adherence to error-proof compliance

- Real-time deviation tracking for immediate alerts and clear documentation of protocol adherence.
- Accurate record-keeping with video data to ensure data integrity and facilitate traceability.
- Insight into protocol adherence patterns to optimise processes and allocate resources efficiently.

Enhance workflow monitoring

- Real-time deviation tracking for immediate alerts and clear documentation of protocol adherence.
- Accurate record-keeping with video data to ensure data integrity and facilitate traceability.
- Insight into protocol adherence patterns to optimise processes and allocate resources efficiently.

A lab notebook that works

- 100% automated data capture instead of manual data entry
- Actionable visual data without human error, misrepresentation or misinterpretation.
- Endless integration capabilities enable flexible integrations with almost anything you already have in your lab to create a single source of truth.
- Deliver value from day 1 - No manual capture = no learning curve to ease implementation.