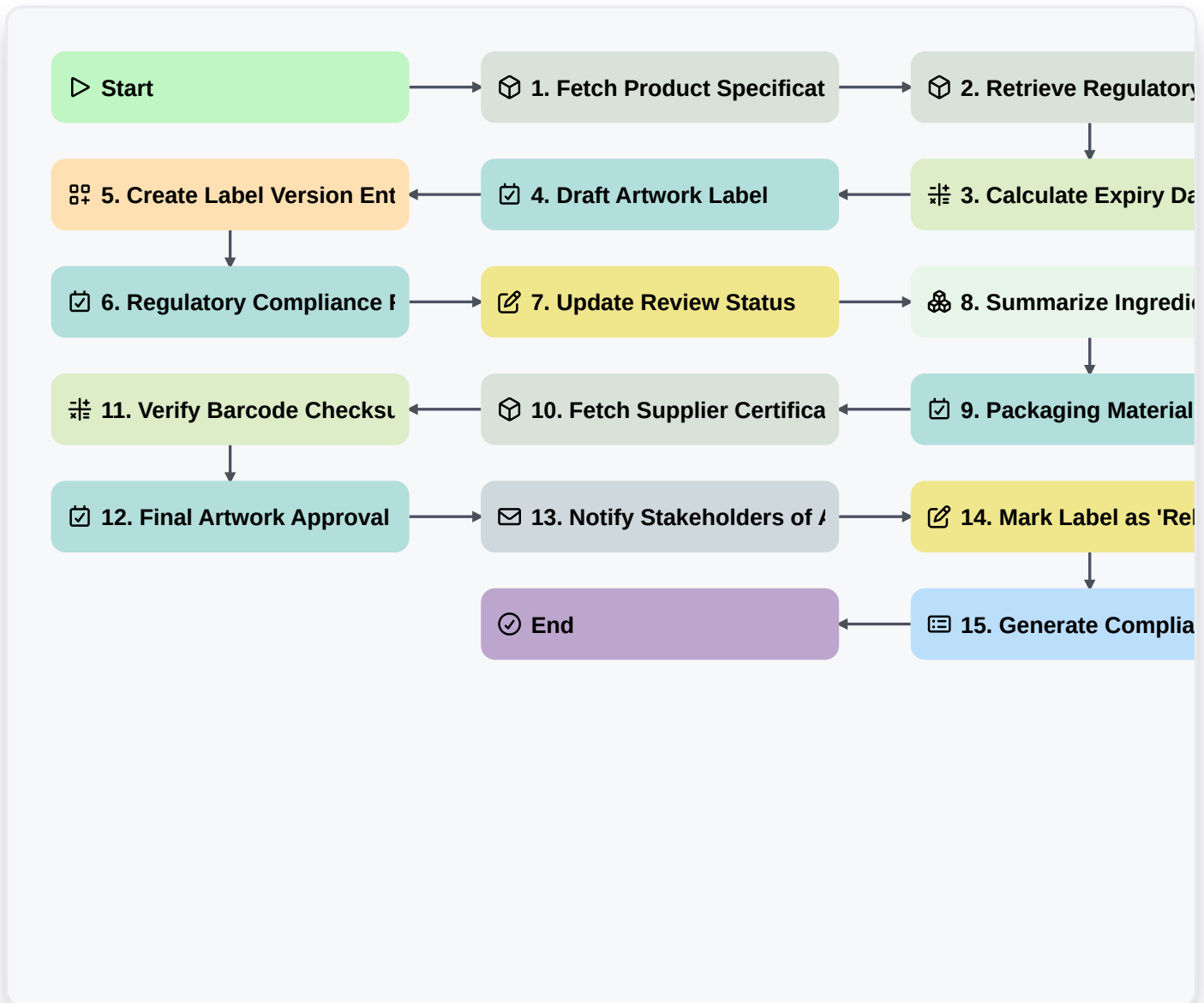


Regulatory Labeling And Packaging Control



Start

Start of the Workflow/Process.

1. Fetch Product Specifications

Retrieve all technical specifications and ingredient lists from the Product Master Data Model.

2. Retrieve Regulatory Requirements

Fetch applicable regional regulatory constraints based on the target market (e.g., EU, FDA, China).

3. Calculate Expiry Date Buffer

Calculate the stability-tested shelf life minus a safety margin to determine the printed expiration date.

4. Draft Artwork Label

Assign a task to the Graphic Designer to create the initial label artwork based on product specs.

5. Create Label Version Entry

Generate a new entry in the Label Version Control data model for the new artwork iteration.

6. Regulatory Compliance Review

Assign a task to the Regulatory Affairs Specialist to verify the artwork against regional requirements.



7. Update Review Status

Update the 'Review Status' field in the Label Version entry to 'Approved' or 'Rejected'.

8. Summarize Ingredient Allergens

Aggregate all allergen-related ingredients from the product entry to create a consolidated allergen summary.

9. Packaging Material Verification

Assign a task to the Packaging Engineer to ensure the physical material (e.g., foil, plastic) is compatible with the print.

10. Fetch Supplier Certifications

Retrieve certificates of analysis/compliance from the Supplier Data Model for the packaging materials.

11. Verify Barcode Checksum

Execute a formula to validate that the generated GTIN/EAN barcode string is mathematically valid.

12. Final Artwork Approval

Assign a task to the Quality Assurance Manager for final sign-off on the complete package design.

13. Notify Stakeholders of Approval

Send an email to the Production and Supply Chain teams notifying them that the label is approved for print.

14. Mark Label as 'Released'

Update the status of the specific Label Version entry to 'Released for Production'.

15. Generate Compliance Audit Trail

Create a report summarizing all changes, approvals, and regulatory checks performed during this process iteration.

End

End of the Workflow/Process.