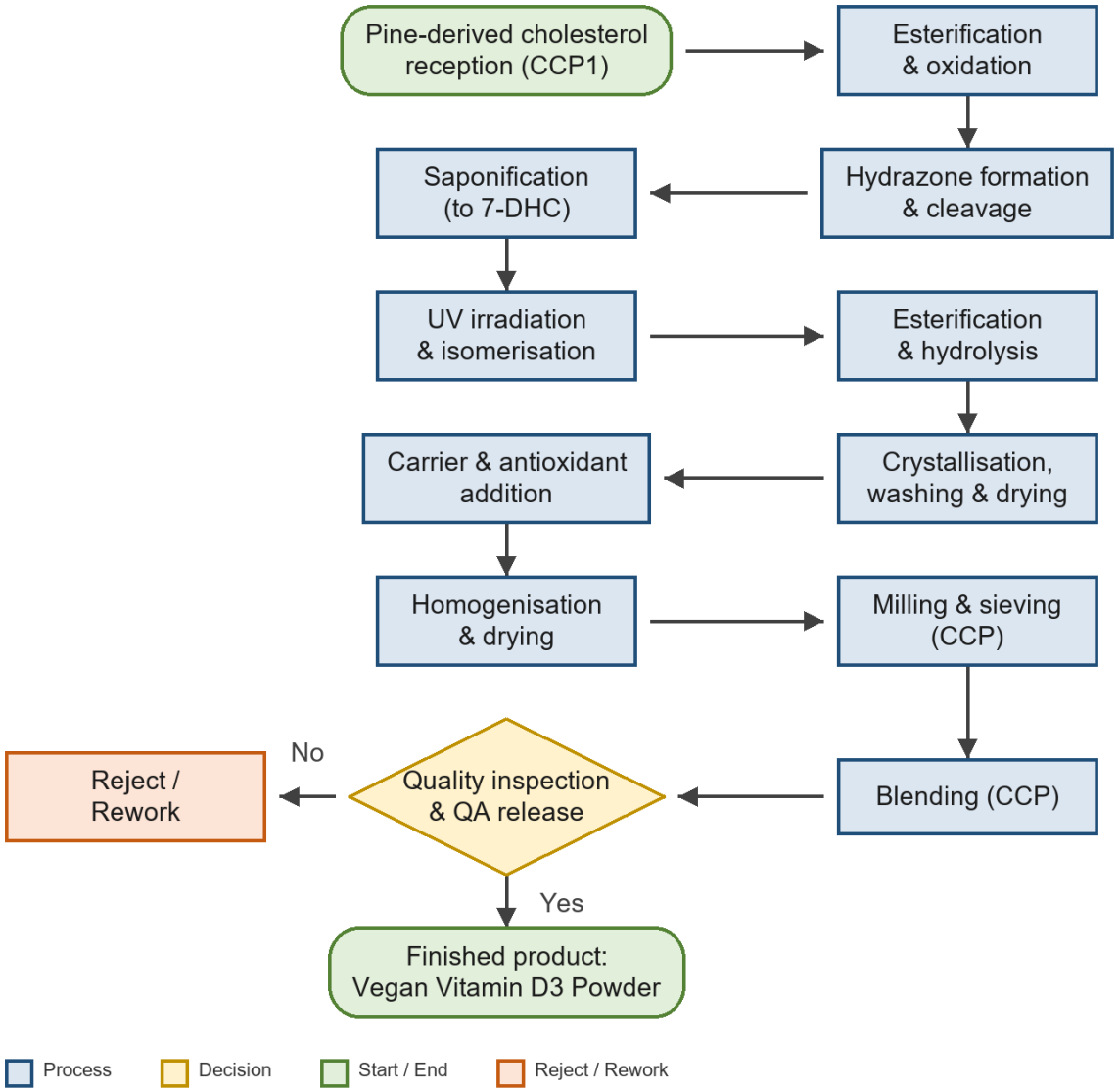
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PROCESS FLOW CHART

Vegan Vitamin D3 100,000 IU/g Powder

Vegan Vitamin D3 Powder is made from cholesterol of vegetable origin derived from pine sterols; no animal material is used. The cholesterol is esterified and oxidised, converted to a hydrazone and cleaved, then saponified to 7-dehydrocholesterol (7-DHC), which is irradiated with UV light and isomerised to vitamin D3. The crude D3 is purified through its ester, crystallised, ethanol-washed and dried, then diluted onto the corn-starch carrier with dl-alpha-tocopherol and silicon dioxide. It is milled, sieved and blended, and released at not less than 100,000 IU/g by HPLC.



The process is operated under a HACCP-based food-safety plan and GMP; critical control points include raw-material acceptance (CCP1), the in-process checks marked on the chart, and the final quality inspection and QA release. Off-spec material is rejected or reworked.

Prepared by: Mia Yu Approved by: Charlie Wang Date: Nov. 17, 2026