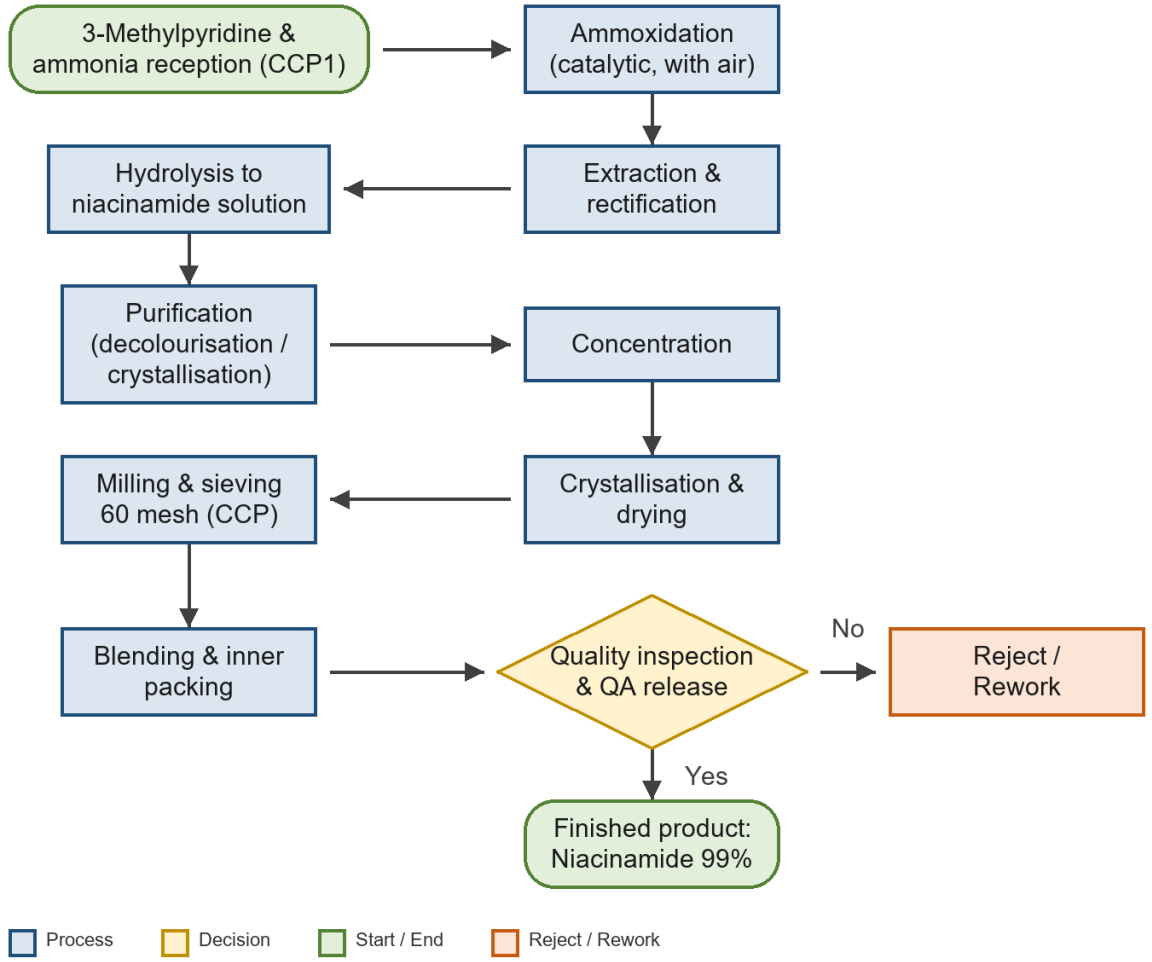
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PROCESS FLOW CHART

Niacinamide 99%

Niacinamide 99% is produced by chemical synthesis from 3-methylpyridine. The substrate is reacted with ammonia and air over a catalyst in the ammoxidation step, and the nitrile is extracted, rectified and hydrolysed to an aqueous niacinamide solution. The solution is purified by decolourisation and crystallisation, concentrated, crystallised and dried, then milled and sieved through 60 mesh (CCP), blended and packed before a final quality inspection and QA release. The product is a white crystalline powder controlled to 99.0-101.0% on the dried basis by HPLC; no ethanol is used in manufacture and no carrier or excipient is added.



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: Oct. 27, 2026