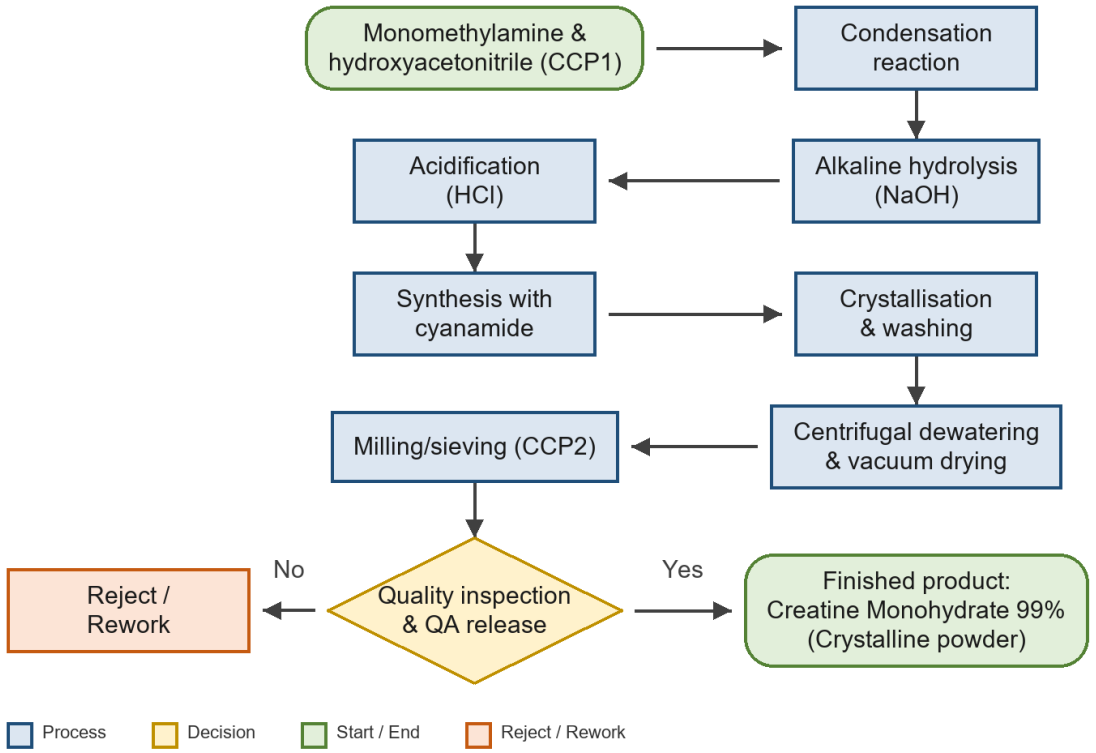
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PROCESS FLOW CHART

Creatine Monohydrate 99%

Creatine Monohydrate 99% (CAS 6020-87-7) is made by chemical synthesis. The reference chart (monomethylamine + hydroxyacetonitrile → condensation → alkaline hydrolysis → acidification → reaction with cyanamide → washing → centrifugal dewatering) is used with a vacuum-drying step added before milling. Assay is not less than 99.0% (dried basis) by HPLC; loss on drying ≤12.0% is the water of crystallisation plus free moisture; ash ≤0.1%. Powder is milled/sieved (CCP2). Regulatory: creatine is not in GB 2760 or GB 14880 and may not be added to ordinary food; its China identity is a GB 24154-2015 sports-nutrition ingredient (speed/strength class, 1-3 g/day), QB/T 2834-2006 quality.



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: Sep. 14, 2026