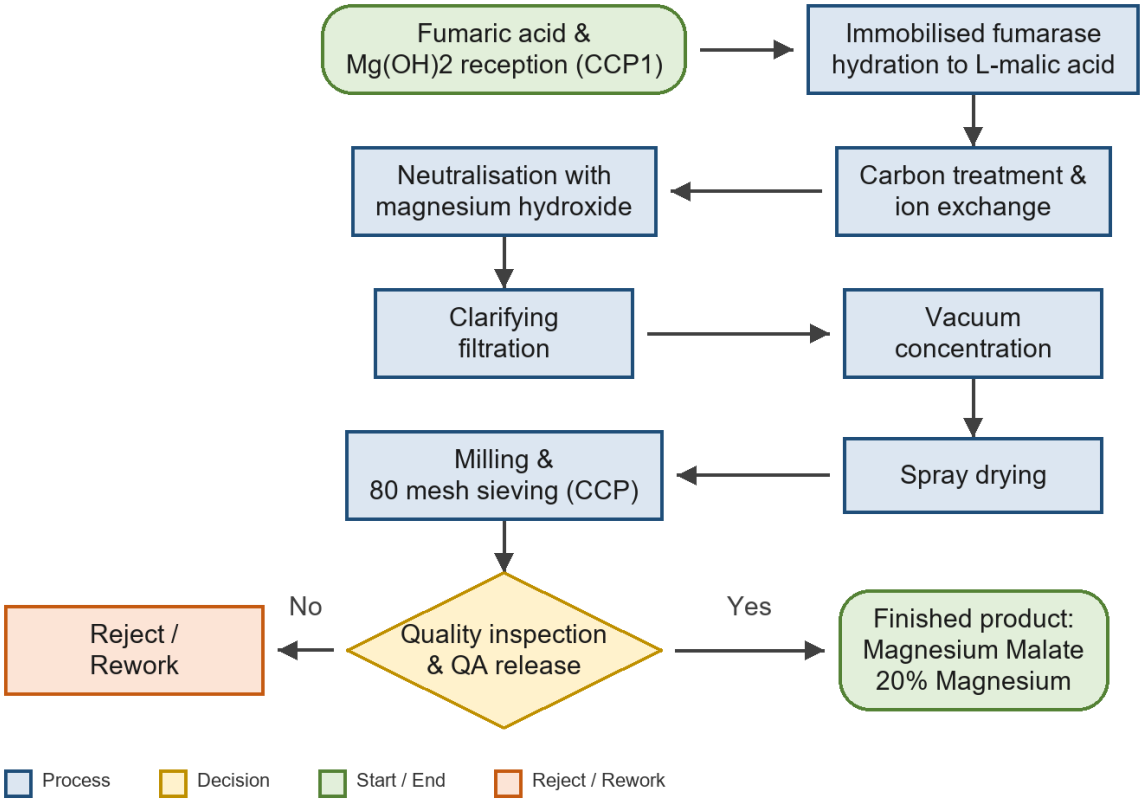
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PROCESS FLOW CHART

Magnesium Malate 20% Magnesium

Magnesium Malate 20% Magnesium is manufactured by an aqueous route. Fumaric acid is hydrated to L-malic acid with immobilised fumarase; the acid stream is decolourised over activated carbon and polished by ion exchange, then neutralised with magnesium hydroxide. The liquor is clarified by filtration, concentrated under vacuum, spray-dried, milled and sieved through 80 mesh (CCP) before a final quality inspection and QA release, giving a white to off-white powder of not less than 20.0% magnesium on the dried basis by titration. No organic solvent, carrier or excipient is used.



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. 19, 2026