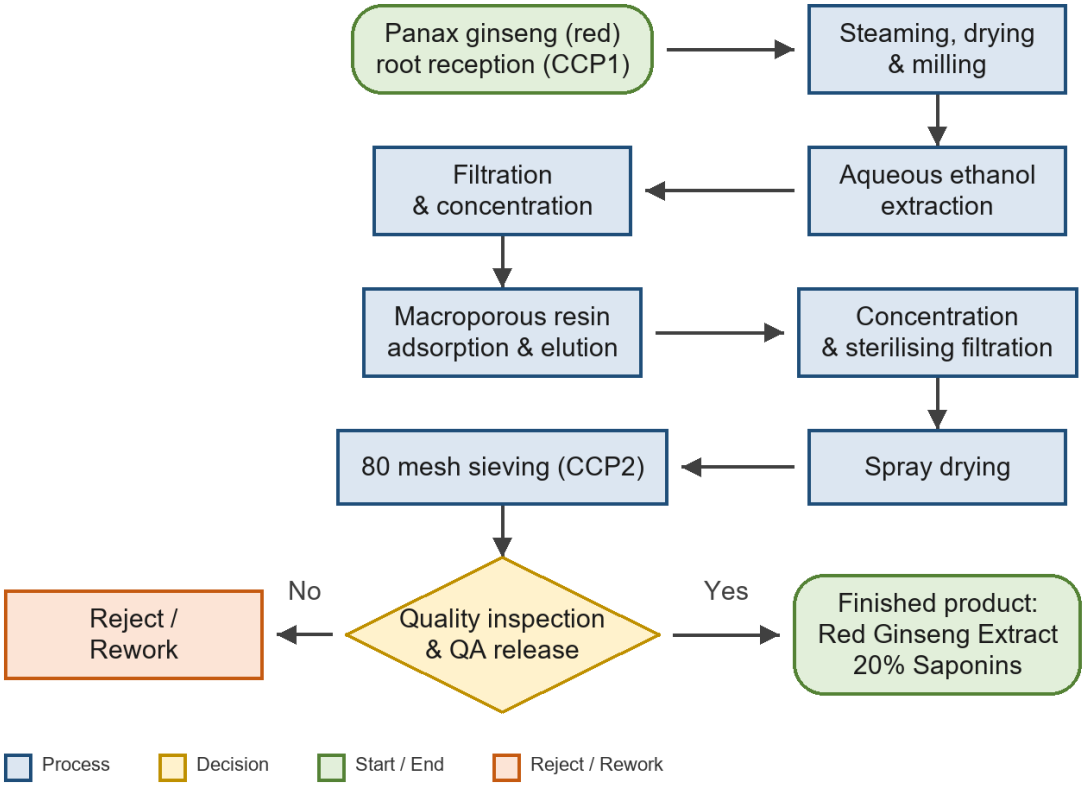
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PROCESS FLOW CHART

Red Ginseng Root Extract 20% Ginsenosides

Red Ginseng Extract 20% Saponins is a water/ethanol extract of steam-treated *Panax ginseng* root. The I column supplies the standard ethanol-extraction + macroporous-resin clean-up skeleton for medium/high alcohol-soluble markers; it is used with the source changed to red ginseng root and the marker to total saponins. Steamed, dried, milled root is extracted with aqueous ethanol, filtered, concentrated, loaded on macroporous resin, eluted, re-concentrated, sterilising-filtered and spray-dried, then sieved (CCP2). Assay is not less than 20.0% by UV. The source is 5-year-or-less cultivated ginseng under the 2012 No. 17 announcement (≤3 g/day; not for pregnant/lactating women or children under 14) - the daily intake must be calculated from the saponin strength.



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: Jan. 13, 2026