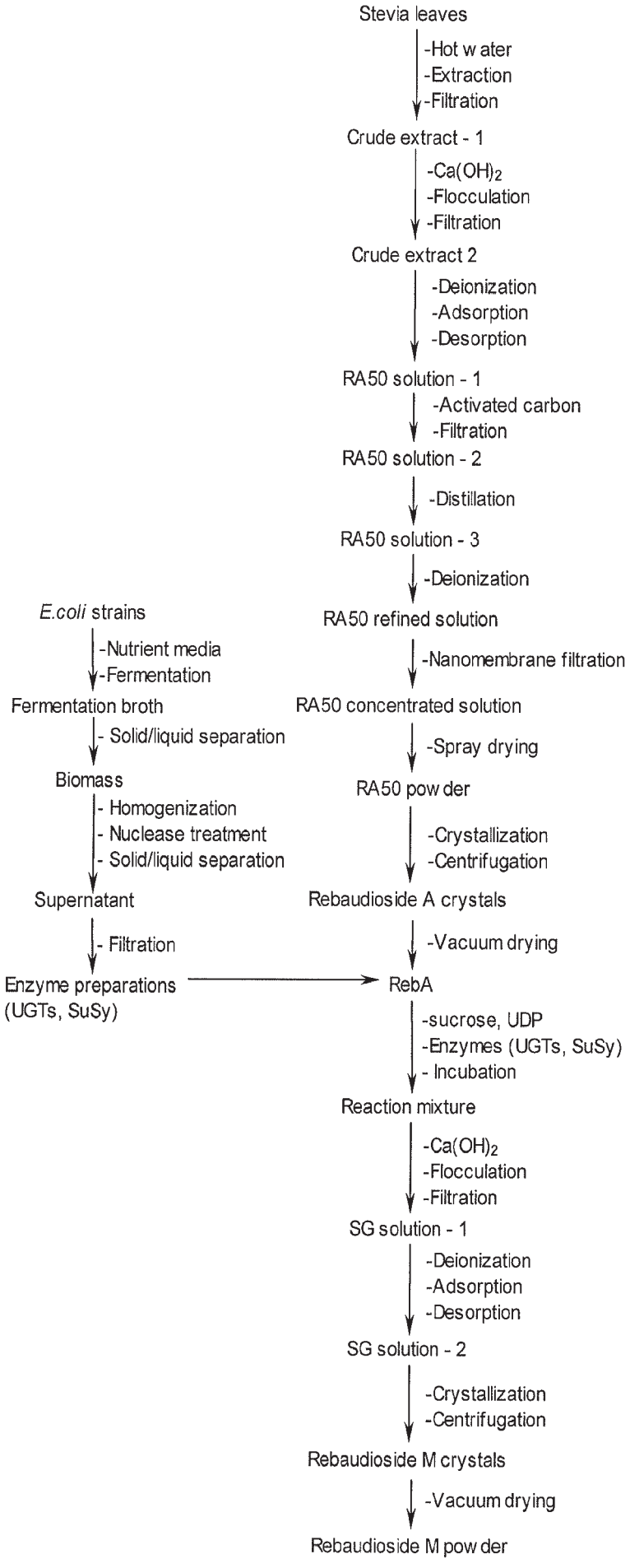
FIG. 1


Stevia leaves
-Hot w ater
-Extraction
-Filtration
Crude extract - 1
-Ca(OH)2
-Flocculation
-Filtration
Crude extract 2
-Deionization
-Adsorption
-Desorption
RA50 solution - 1
-Activated carbon
-Filtration
RA50 solution - 2
-Distillation
RA50 solution - 3
-Deionization
RA50 refined solution
-Nanomembrane filtration
RA50 concentrated solution
-Spray drying
RA50 pow der
-Crystallization
-Centrifugation
Rebaudioside A crystals
-Vacuum drying
RebA
-sucrose, UDP
-Enzymes (UGTs, SuSy)
- Incubation
Reaction mixture
-Ca(OH)2
-Flocculation
-Filtration
SG solution - 1
-Deionization
-Adsorption
-Desorption
SG solution - 2
-Crystallization
-Centrifugation
Rebaudioside M crystals
-Vacuum drying
Rebaudioside M pow der
E.coli strains
-Nutrient media
-Fermentation
Fermentation broth
- Solid/liquid separation
Biomass
- Homogenization
- Nuclease treatment
- Solid/liquid separation
Supernatant
- Filtration
Enzyme preparations
(UGTs, SuSy)