

Figure S1. Structure diagram of Rotary Microwave Vacuum Dryer. 1 PLC control box; 2. Ventilation port; 3. Furnace door; 4. Dynamic material tray; 5. Vacuum pump auxiliary part; 6. Circuit protection part; 7. Vacuum pump; 8. Vacuum tube; 9. Motor; 10. Material tray carrier frame; 11. Microwave generator; 12. Circuit controller; 13. Louver.

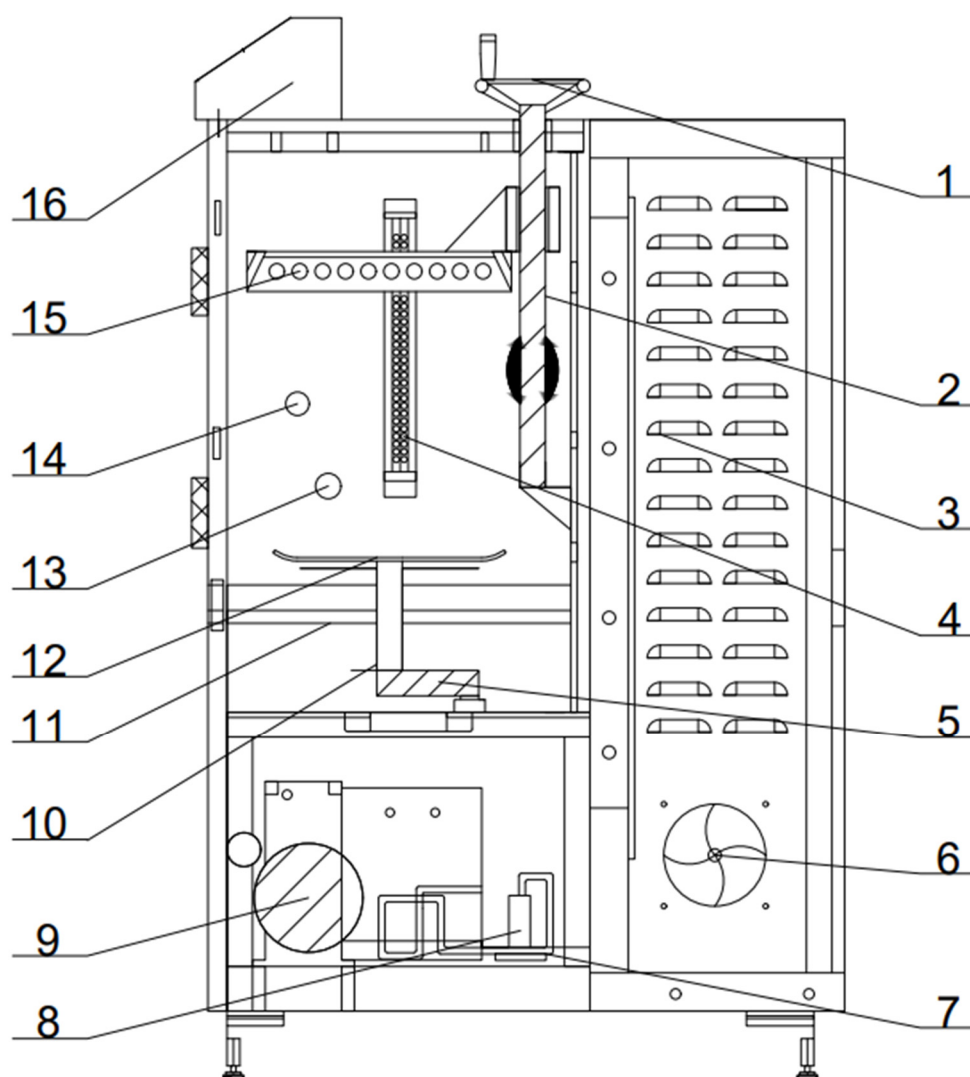


Figure S2. Structure diagram of Vacuum Far Infrared Dryer.1. Hand cranked adjustment wheel; 2. Lifting screw; 3. Electric control box;4. Chute; 5. Weighing module; 6. Fan; 7. Circulating fan; 8. Pneumatic system; 9. Vacuum pump; 10. Temperature sensor 1; 11. Thermal insulation layer; 12. Material tray; 13. Temperature sensor 2; 14. Temperature sensor3; 15. Infrared heating tube; 16.Control panel.

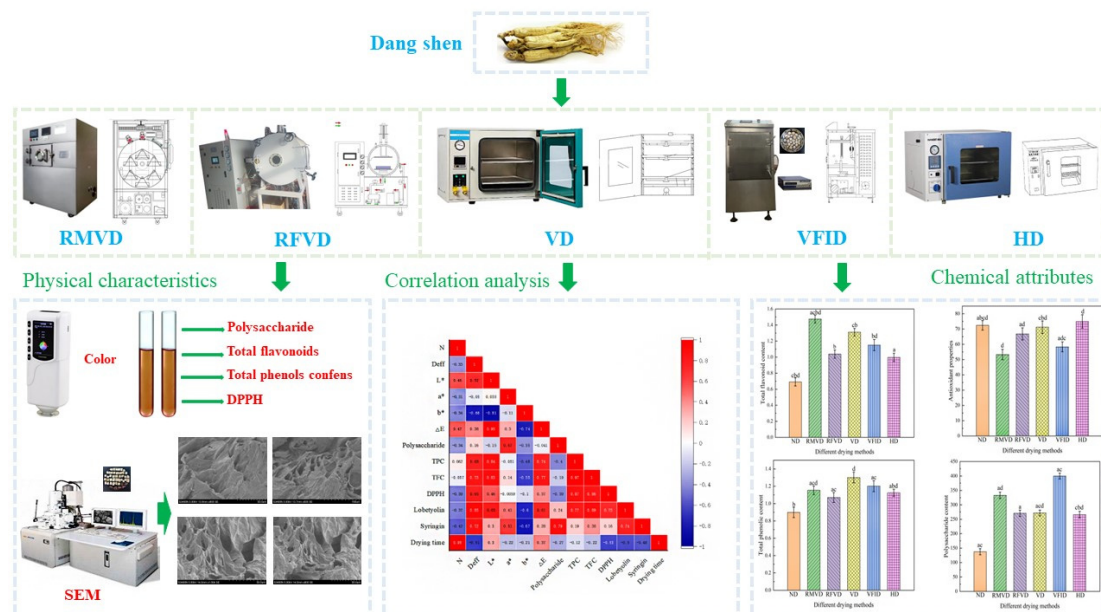


Figure S3. The schematic diagram of Codonopsis drying and quality detection under different drying methods.