

Extraction equipment extraction equipment national quality manufactures Seiko quality microwave extraction equipment

The mechanism of microwave extraction can be considered from two aspects. On the one hand, the microwave radiation process is the high frequency electromagnetic wave penetrating the extraction medium, reaching the internal vascular bundle and the cell system of the material. Because of the absorption of microwave energy, the temperature of cells rapidly increases, so that the pressure inside the cell exceeds the capacity of cell wall expansion, and the cell ruptures. The effective components of the cell flow freely and capture and dissolve in the extraction medium at lower temperature. After further filtration and separation, the extraction material is obtained. On the other hand, the electromagnetic field produced by microwave is accelerated by the extraction part of the component to the interfacial diffusion rate of the extraction solvent. When the water is used as a solvent, the water molecules turn into the excited state at high speed in the microwave field. This is a high energy unstable state, or the vaporization of water molecules, and the strengthening of the driving force of the extraction components; or the water molecule book. The body releases energy to the ground state, and the energy released is transmitted to other molecules to accelerate its thermal motion.