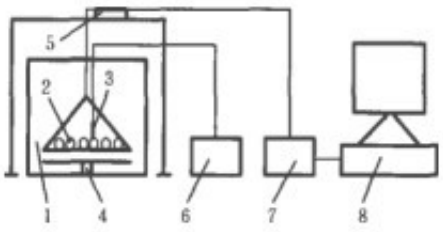
Effects of three treatments on vitamin C content in different parts of jujube

ABSTRACT: Objective To observe the effects of different treatments on the content of vitamin C in different parts of jujube. Methods Red jujube was dried by electrothermal constant temperature drying method, microwave drying equipment, electrothermal constant temperature drying method and microwave drying method. Vitamin C levels in different parts of red jujube were determined by iron () - phenanthroline - BPR spectrophotometry.



Results The vitamin C level in pericarp was significantly higher than that in pulp (P

Key words: jujube microwave drying; vitamin C; electrothermal constant temperature drying

Red jujube is a mature fruit of the jujube genus Rhamnaceae, which was first recorded in Shennong Herbal Classic. It has the functions of invigorating qi, nourishing blood and tranquilizing mind. Jujube is rich in protein, sugar, organic acid, vitamin A, B1B2, C, P and so on. Because of the suitable climate conditions, the jujube fruits produced in Hami, Hetian and Aksu regions of Xinjiang are well colored, nutritious and of good quality.

At present, the drying amount of jujube accounts for more than 80% of all products, and most of them are in the form of dried jujube, mud jujube, jujube, Cizao jujube, honey jujube, jujube wine, jujube tea, jujube beverage and other processed products. However, in the processing of jujube, the loss of active ingredients, especially vitamin C, affects the nutritional value of jujube. Therefore, by comparing the effects of different treatments on the content of vitamin C in different parts of jujube, this study provides a theoretical reference for the rational processing of jujube.

In a word, stricter examination, more careful access and stronger supervision are essential. Especially, it is necessary to clarify the special requirements of the quality management system

of customized medical device enterprises, such as different requirements of process, personnel, validation and standardized medical device products.

At the same time, manufacturers also need to develop appropriate risk analysis and control documents according to their own medical device products. On the one hand, to ensure the safety and effectiveness of their products, on the other hand, they also need to provide sufficient certification to the regulatory authorities to meet the requirements of registration, access and daily supervision. In a word, the customized medical device industry needs the cooperation of manufacturers and regulatory departments to formulate appropriate, strict and feasible special requirements to ensure the safety of customized medical device users and promote the healthy development of customized medical device industry.