

ABSTRACT

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**THE IDENTIFICATION OF DEXAMETHASONE COMPOUNDS IN
HERBAL MEDICINE CIRCULATING IN MADURA HIGH
PERFORMANCE LIQUID CHROMATOGRAPHY METHOD**

ABSTRACT

Herbal Medicine (Jamu) is a traditional medicine that is widely consumed by the Indonesian people because it is considered safe and natural. However, the addition of medicinal chemicals such as Dexamethasone is illegal in herbal medicine products that pose a serious risk to health. period from September 2022 to October 2023, BPOM still found 50 herbal medicine items containing medicinal Chemicals. This study aims to identify the presence or absence of Dexamethasone compounds in herbal medicine circulating in the Madura region using the High Performance Liquid Chromatography (HPLC) method.

This research was carried out using a purposive sampling technique, namely in each district 4 samples of herbal medicine collected from various regions in Madura, and analyzed using HPLC with the C18 silent phase and the mixed motion phase of Acitronitril: Water (25:75).

The results showed that 9 out of 16 samples of herbal medicine tested positive contained dexamethasone with various levels based on area area and retention time in accordance with the standard. The highest level identified as medicinal chemicals in the herbal medicine sample was code (SU-B) 5,702 mg and the lowest level was at code (SU-C) 0.055 mg. These findings indicated a potential health risk for consumers of herbal medicine in Madura.

This research needs the importance of strict supervision of the circulation of herbal medicine and education to the public regarding the dangers of herbal medicine consumption that is not guaranteed to be safe.

Keywords: Herbal Medicine, Dexamethasone, HPLC, Madura