



Tween-80对鱼腥草注射液及鱼腥草挥发油的影响

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| 作者中文名 | 作者英文名 | 单位中文名 | 单位英文名 | E-Mail |
|-------|-------------|---|---|-------------------------|
| 谭志高 | TAN Zhigao | 中国中医科学院 医学实验中心, 北京 100700 中国中医科学院 中药研究所, 北京 100700 | Experimental Research Center, China Academy of Chinese Medical Science, Beijing 100700, China Institute of Chinese Materia Medica, China Academy of Chinese Medical Science, Beijing 100700, China | |
| 吴志茂 | CHAO Zhimao | 中国中医科学院 医学实验中心, 北京 100700 中国中医科学院 中药研究所, 北京 100700 | Experimental Research Center, China Academy of Chinese Medical Science, Beijing 100700, China Institute of Chinese Materia Medica, China Academy of Chinese Medical Science, Beijing 100700, China | chaozhimao@yahoo.com.cn |
| 隋宇 | SUI Yu | 中国中医科学院 医学实验中心, 北京 100700 | Experimental Research Center, China Academy of Chinese Medical Science, Beijing 100700, China | |
| 刘海洋 | LIU Haiyang | 中国中医科学院 中药研究所, 北京 100700 | Institute of Chinese Materia Medica, China Academy of Chinese Medical Science, Beijing 100700, China | |
| 吴晓毅 | WU Xiaoyi | 中国中医科学院 中药研究所, 北京 100700 | Institute of Chinese Materia Medica, China Academy of Chinese Medical Science, Beijing 100700, China | |
| 孙健 | SUN Jian | 中国中医科学院 医学实验中心, 北京 100700 | Experimental Research Center, China Academy of Chinese Medical Science, Beijing 100700, China | |
| 闫寒 | YAN Han | 中国中医科学院 医学实验中心, 北京 100700 | Experimental Research Center, China Academy of Chinese Medical Science, Beijing 100700, China | |

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中文摘要:目的:研究聚氧乙烯脱水山梨醇单油酸酯(吐温80)对鱼腥草挥发油和鱼腥草注射液的影响。方法:重点针对醛基化合物和新生成的物质,从不同产地药材、不同贮存温度、不同贮存时间的角度,对鱼腥草挥发油、鱼腥草注射液、吐温80与鱼腥草挥发油的混合溶液进行¹H-NMR的测定和谱图比较。结果:4个产地鱼腥草的挥发油均存在3个醛基的¹H-NMR单峰,但在与吐温80混合后这些醛基峰基本消失,并在 δ 8.30处出现了新的¹H-NMR峰。鱼腥草注射液在醛基吸收区域未见明显的¹H-NMR峰,但在 δ 8.30处有微弱的¹H-NMR峰,该 δ 8.30峰在鱼腥草注射液于40℃恒温放置1到3个月后面积显著升高;结论:吐温80会使鱼腥草挥发油中的醛基化合物含量显著降低并生成新的物质,鱼腥草注射液中含有微量的该新物质,并在40℃放置1个月该新物质的含量显著升高。

中文关键词:鱼腥草 鱼腥草注射液 挥发油 吐温80 核磁共振谱

Effect of Tween 80 on Yuxingcao injection and volatile oils from *Houttuynia cordata*

Abstract-Objective: To research the effect of polysorbate 80 (Tween 80) on Yuxingcao injection and volatile oils from *Houttuynia cordata*. **Method:** ¹H-NMR spectra of aldehydic and new matter in Yuxingcao injection, volatile oils of *H. cordata*, and solutions of Tween 80 and volatile oil of *H. cordata* are determined and compared from various angles of growing origin, storage temperature, and storage time. **Result:** Three aldehydic singlets in ¹H-NMR spectra of every volatile oil from 4 aerial part of *H. cordata* were observed. These aldehydic peaks were basically disappeared and a new peak at δ 8.30 was found in ¹H-NMR spectra of the volatile oil solutions in tween 80. Any obvious aldehydic peak in ¹H-NMR spectra did not be observed in Yuxingcao injection. A weak peak at δ 8.30 was found in ¹H-NMR spectra in Yuxingcao injection, and the peak high of δ 8.30 was remarked gone up when the injection was stored in 40℃ for 1 to 3 months. **Conclusion:** Tween 80 might cause the obvious reduce of aldehydic compounds contents and the production of a novel signal at δ 8.30 in ¹H-NMR spectra when it was mixed with the volatile oil from the aerial part of *H. cordata*. The novel signal at δ 8.30 in ¹H-NMR spectra existed in Yuxingcao injection and was very small, but was increased remarkably when the Yuxingcao injection was stored at 40℃ for 1 month at least.

keywords: *Houttuynia cordata* Yuxingcao injection volatile oil Tween 80 ¹H-NMR spectrum

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