

PP48. QUALITATIVE ANALYSIS OF CHEMICAL CONSTITUENTS IN *HYSSOPUS CUSPIDATUS* BORISS. BY Q-ORBITRAP-HRMS

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Hyssopus cuspidatus Boriss. (HcB) is a plant of the genus *Hyssopus* in the Labiatae, growing mainly in the northern region of Xinjiang [1-2]. HcB is a medicinal herb in Chinese medicine, traditionally used to treat respiratory diseases. HcB is also one of the main herbal materials of many traditional ethnic medicine prescriptions, such as Hanchuan Zupa Granules, which is commonly used for the treatment of cough and abnormal mucus artma caused by colds. In this study, the chemical constituents of HcB were investigated using Q-Orbitrap-HRMS, and a total of 89 compounds, including 42 organic acids, 29 flavonoids, 7 phenylpropanoids, 5 terpenoids, 1 alkaloid and 5 other compounds, were identified from the HcB extract. The result could provide theoretical foundation for the quality control and new drug development from HcB resources in the future.

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REFERENCES

- [1] Wang J, Lou J, Luo C, Zhou L, Wang M, Wang L. Int. J. Mol. Sci. 2012;9:13.
- [2] Mamadalieva NZ, Akramov DK, Ovidi E, Tiezzi A, Nahar L, Azimova SS, Sarker SD. Medicines. 2017;1:4.