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**Chemical composition, antibacterial activity and related mechanism of the essential oil from the leaves of *Juniperus rigida* Sieb. et Zucc against *Klebsiella pneumoniae***

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**ABSTRACT**

*Ethnopharmacological relevance:*

*Juniperus rigida* is used as Tibetan and Mongolian medicine in China for the treatment of rheumatoid arthritis, nephritis, brucellosis and other various inflammatory diseases.

*Aim of the study:*

To evaluate antibacterial potential of essential oils from *J. rigida* leaves against *Klebsiella pneumoniae* and to examine its possible related mechanisms. The study was undertaken in order to scientifically validate the traditional use of *J. rigida*.

*Materials and methods:*

The essential oil was extracted from the leaves of *J. rigida* by supercritical CO<sub>2</sub> fluid extraction technology.

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