

Extraction and Separation of Bioactive Acids from *Gelidium Amansii* by Preparative Chromatography

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Simultaneous extraction and separation of some organic acids from marine plant *Gelidium Amansii* were developed. Several extraction methods such as liquid-liquid extraction, ultrasonic-assisted extraction and microwave-assisted extraction were used. Different conditions were evaluated, for example different extraction solvents (water, methanol, ethanol and acetone), procedures, time and temperature. The optimum extraction condition was established and the extract from *Gelidium Amansii* was separated and determined using a C18 column (5 μ m, 150 mm*4.6 mm). Then preparative columns with larger packing sizes were investigated to isolate the target compounds from the extracts. The 12 μ m chromatographic column showed better separation.