

## Isolation, Preparation and Structure Determination of Maximal Impurity in Aripiprazole

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**SUMMARY.** In this paper, the maximal impurity dimer was isolated and purified from the mother liquor in the preparation of aripiprazole, and the structure was determined by  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR, MS and EA. Meanwhile, this impurity can be prepared in a higher yield by a convenient synthetic method.

**RESUMEN.** En este documento, se aisló y se purificó el dímero de impureza máximo a partir del licor madre en la preparación de aripiprazol, y la estructura se determinó mediante  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR, MS y EA. Mientras tanto, esta impureza se puede preparar con un rendimiento mayor mediante un método sintético conveniente.

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**KEY WORDS:** aripiprazole, dimer, maximal impurity, preparation, structure determination.

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