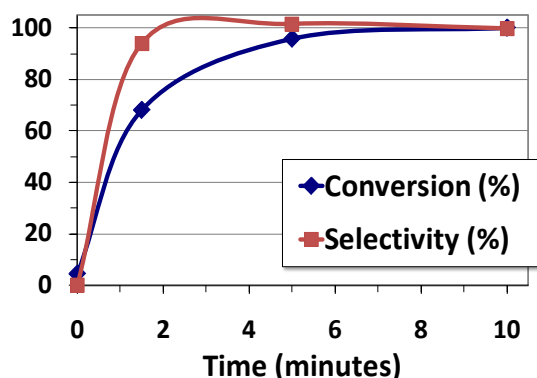


## NEW METHODOLOGY FOR FAST AND SELECTIVE C-C COUPLING REACTIONS

Sopartec, the technology transfer company of the Université catholique de Louvain (UCL), presents a new method for performing Suzuki-Miyaura reactions.



### Technology Keywords

- Suzuki-Miyaura reaction
- High conversion rate
- High selectivity

### Technology Market :

#### Chemical synthesis

Chemical reactions aiming to couple carbon atoms are important methodologies for the preparation of organic molecules. These reactions have recently emerged and are often a crucial step in the synthesis of many molecules, especially for the synthesis of pharmaceuticals or pesticides. These reactions are also essential for the synthesis of materials such as liquid crystals, organic conductive materials and semi-conductors. The demand for these molecules is getting more and more important.

### The UCL invention

Researchers at the Université catholique de Louvain have developed an original method of carrying out C-C coupling reactions **almost 500 times faster** compared to processes reported in the literature, still allowing a **high selectivity of almost 100%**.

#### Features :

This method

- is easy to use,
- requires the same reagents as those used in current existing processes and
- can be readily adapted to the batch reactor currently used in the industrial processes.

Furthermore, an improvement has been made to the catalyst generally used in the literature (Pd supported on activated carbon) avoiding some drawbacks of the latter. By consequence, the **activity has been further increased**.

### Technology Status

This work is the subject of a patent application : European patent application filed on 22/12/2010. (internal file reference number : UCL-016)

Sopartec would like to talk to companies interested in developing and commercializing this opportunity.

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