

Chem 345 – Organic Reactions

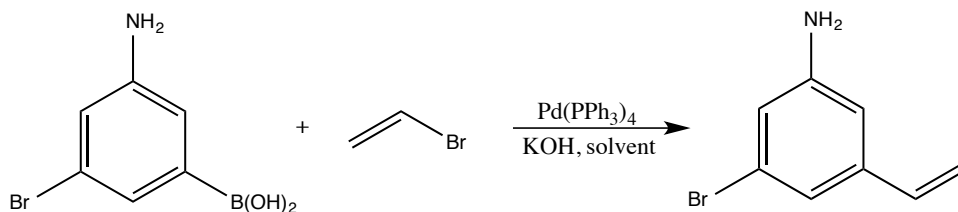
Chapter 18

Prepared by José Laboy, MS

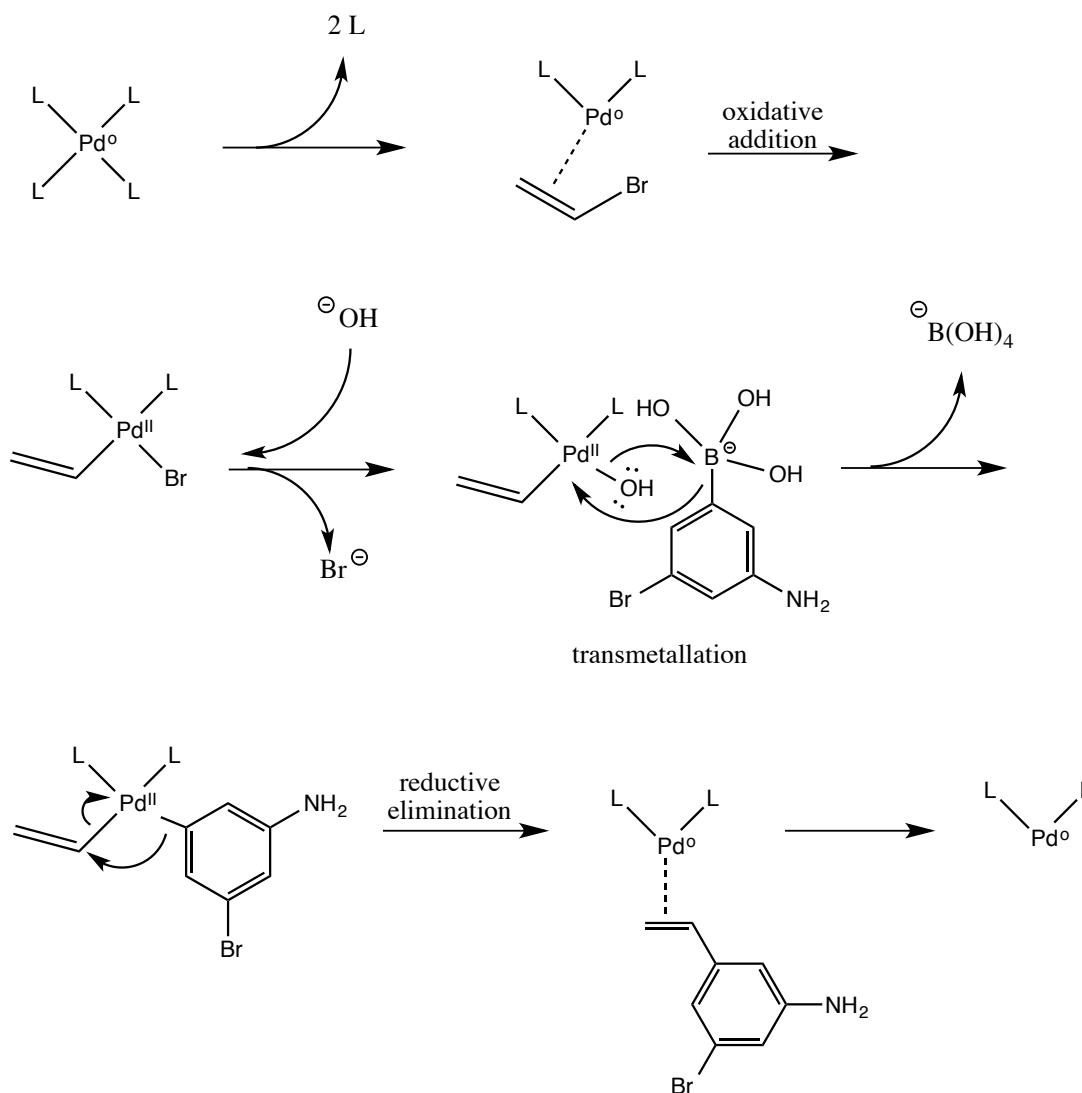
<http://www.chem.wisc.edu/areas/clc> (Resource page)

Suzuki Coupling Reaction

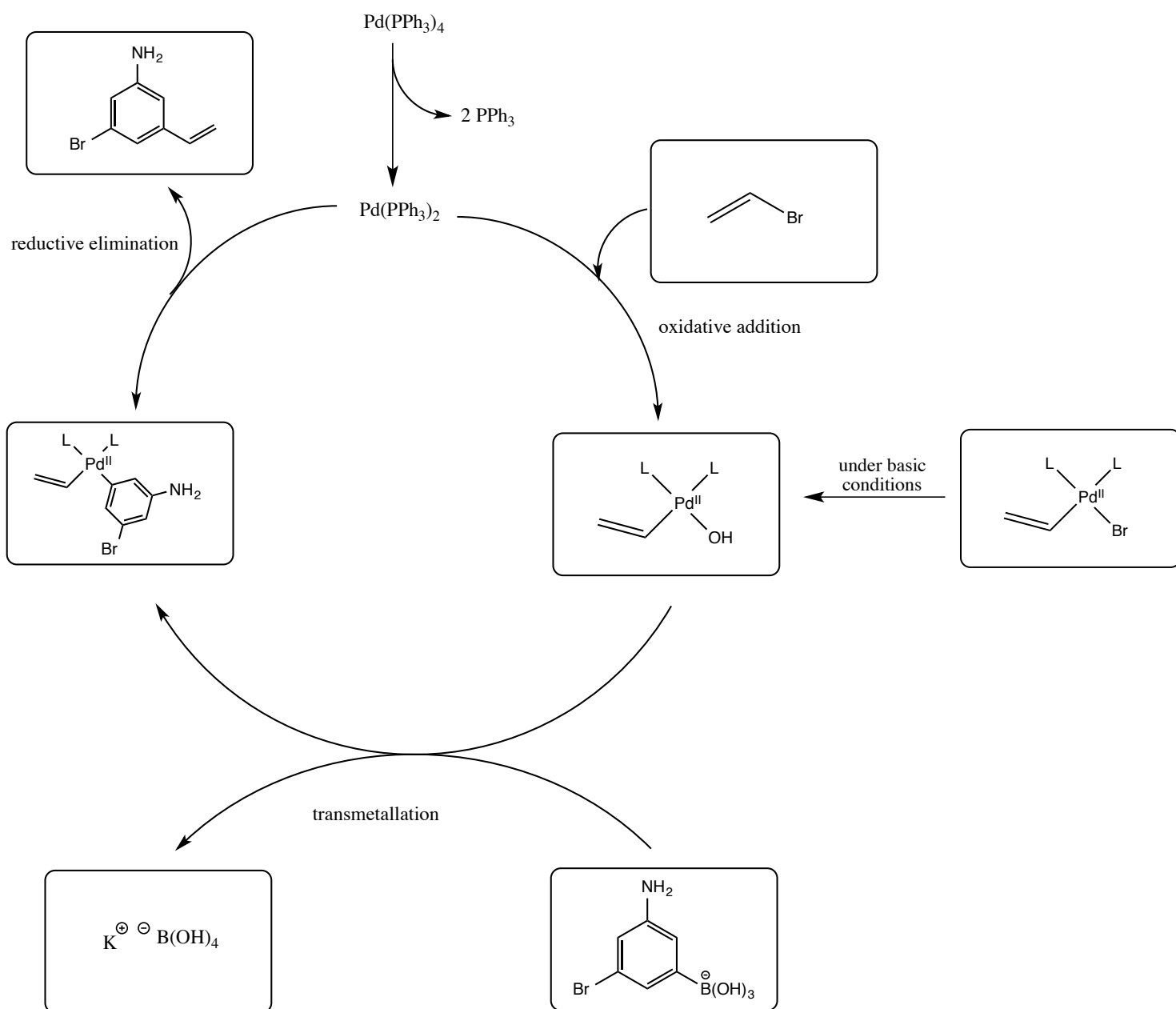
Reaction:



Mechanism:



Another way of looking at the mechanism is to view the reaction cycle. See next page.



The Suzuki coupling reaction requires a boronic acid derivative of mostly aryl compounds. The halide can be alkenyl, alkynyl or aryl. The reaction is performed under basic conditions. The actual transmetalation process is not quite fully understood.