



AMITY INSTITUTE OF BIOTECHNOLOGY

CERTIFICATE

The research work embodied in this thesis entitled “Study of expression of genes involved in induction of systemic acquired resistance in *Lycopersicon esculentum* by fruit extracts of *Azadirachta indica* against *Pseudomonas syringae* pv. *tomato*” has been carried out at Amity Institute of Biotechnology, Amity University during the period of May 2011 to July 2014 and submitted for the award of the degree of **Doctor of Philosophy** in **Biotechnology**. work is original and has not been submitted so far This in part or in full, for the award of any degree or diploma of any university.

Signature of the candidate

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