

RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY

REGIONAL FACILITY FOR DNA FINGERPRINTING

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Cost of Microsatellite assisted Plant DNA Fingerprinting

I Primer Cost *

1. FAM modified M13 universal primer.....: ~20 bases

a. Cost : 20 bases x ₹ 25.....: ₹ 500

b. FAM modification of the M13 universal primer.....: ₹ 4000

Sub-Total 1 : ₹ 4500

2. Microsatellite primers

Forward primer (M13 tailed).....: ~40 bases

Reverse primer.....: ~20 bases

Cost : 60 bases x ₹ 25: ₹ 1500

Sub-Total 2 : ₹ 1500 x N**

II DNA Fingerprinting following microsatellite markers

1. DNA isolation and purification.....: ₹ 160/sample

Sub-Total 3 : ₹ 160 x S***

2. PCR.....: ₹ 50/reaction

Sub-Total 4 : ₹ 50 x N x S*****

3. Capillary Electrophoresis.....: ₹ 100/reaction

Sub-Total 5 : ₹ 100 x N x S*****

III Overhead charges : ₹ 25% of Sub-Totals 1 + 2 + 3 + 4 + 5

IV Total : ₹ (Sub-Totals 1 + 2 + 3 + 4 + 5 + Overhead charges) + 10.3% service tax

* Primer cost for 50nM scale of synthesis and each synthesis is sufficient for over 5000 PCR reactions. Actual cost may vary subject to primer length.

** N - Number of primer set to be tested

*** S - Number of samples to be analysed

Disclaimer: Genetics of the species analysed determine the efficiency of PCR amplification of microsatellite loci and RFDF shall report the data to the party as it arises. Further, we assume that the tissue sample provided by the party is suitable to yield good quality DNA.

Chief Scientific Officer

RFDF