

Phaseolus PCR test – 8% gel

Each student provided 3ul of the PCR product, aDr. Weller added 1ul of loading dye and put the entire amount on one lane of a gel. This was electrophoresed at 120V for 2h, stained with SBR Green I and the image was captured.

Here are the lanes:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Ladder	AL-1	AL-2	AL-3	AL-4	TW-PG	TW-G	TW-CD	TW-ND	BB-CD	BB-ND	BB-G	BB-P	ST-ND	ST-CD	ST-G	ST-P2	Ladder

Only the TW lanes clearly show product, in the Phaseolus-Glycine lane, the Glycine lane and the Control Phaseolus DNA lane, but none in the No DNA lane. There may be a small amount of product in the last three lanes as well (Turner-Smith) – we should run a second gel to verify this. While we did not necessarily expect to see the primers work in the Glycine DNA, there is enough sequence conservation that this is a believable result.

There may be much smaller amounts of product in the AL and BB reactions – we would need to load more materua in order to check this outcome.