



October 2008

**APPLICATION FOR GENERAL RELEASE OF GENETICALLY
MODIFIED ORGANISMS (GMO's) IN SOUTH AFRICA**

Transgenic Potato Line SpuntaG2

Unique Identifier ARC-SPG02-8

Submitted by ARC-Roodeplaat VOPI

Deadline

2 September

CONTENTS:

1. Application for General Release of Genetically Modified Organisms (GMO's) in South Africa
2. Media release
3. Public notices
4. Proof of payment of the application



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APPLICATION FOR GENERAL RELEASE OF GENETICALLY MODIFIED ORGANISMS (GMO's) IN SOUTH AFRICA

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CONTENTS:

- ✓ Appendix I: Potato Production and Trade in South Africa
- ✓ Appendix II: Efficacy of SpuntaG2 in controlling potato tuber moth infestation in the field and in storage
- ✓ Appendix III: Agronomic performance of SpuntaG2 compared with Spunta in two agro-ecological settings
- ✓ Appendix IV: Comparison of survivability of SpuntaG2 and Spunta volunteers
- ✓ Appendix V: Determination of Expression Level of Cry1Ia1 protein in SpuntaG2
- ✓ Appendix VI: Determination of Expression Level of NPTII protein in SpuntaG2
- ✓ Appendix VII: Development of an event-specific PCR for SpuntaG2
- ✓ Appendix VIII: Sequence of the T-DNA inserted into the SpuntaG2 Genome, compared with the original T-DNA of pSPUD5
- ✓ Appendix IX: Determining the number of inserted T-DNA's in SpuntaG2
- ✓ Appendix X: Determining the absence of pSPUD5 backbone in SpuntaG2
- ✓ Appendix XII: Search for Sequence Similarity with known protein toxins

? Disease susceptibility data

? integration site

✓ XI ✓
potato precursors