

Naktuinbouw Accredited Laboratories

January 2010



NAL-accreditation for private seeds labs

Independent – reliable – effective

NAL = Naktuinbouw Accredited Laboratory

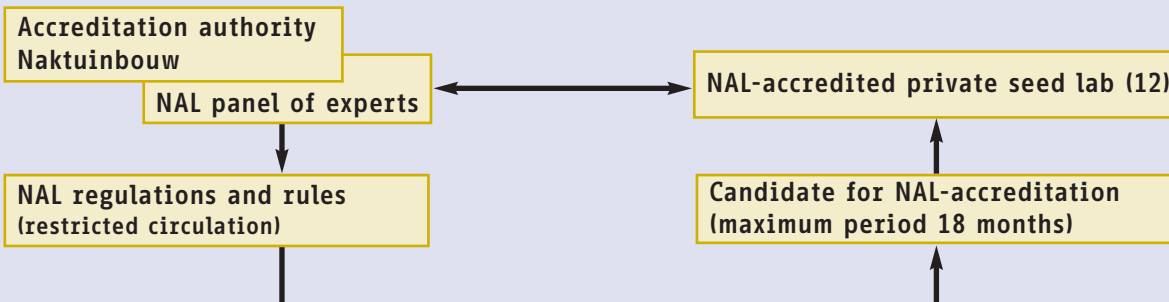
Input

- Superior quality assurance system
- Approved test protocols
- Training courses
- Proficiency testing
- Yearly audits

Results

- Effectiveness in seed testing
- State of art protocols
- Liability precaution
- One stop testing
- Company Quality Certificates
- Real time release of Quality Certificates

NAL in short



Protocols

- or Naktuinbouw standard-protocols
- or company specific protocols (approved by Naktuinbouw)

Proficiency tests

- Yearly program
- Obligated participation
- Corrective actions when results deviate

Proficiency tests program 2010:

Seed Health

Viruses

- Pepino Mosaic Virus in tomato
- Cucumber Green Mottle Mosaic Virus and Squash Mosaic Virus in cucumber and squash

Bacteria

- *Acidovorax avenae* subsp. *citrulli* in melon or cucumber
- *Pseudomonas syringae* pv. *porri* in leek
- *Xanthomonas hortorum* pv. *carotae* in carrot
- *Xanthomonas campestris* pv. *vesicatoria* in pepper

Funghi

- *Ascochyta* spp. in pea or bean

Seed Analysis

Germination

- Beans, Cabbage, Carrot, Spinach, Pepper

Usable Plant Test

- Cucumber

Purity

- Onion

Thousand Seed Weight

- Onion

Training courses

- Seed analyst
- Seed sampler
- Specific (ELISA, PCR etc.)

Yearly audits

- Officially registered auditors
- Report with findings and non-conformities

Company Quality certificates

- NAL-heading, company layout (to be approved)
- Controlled real-time release
- Known in many countries
- Suitable for all kind of quality information (germination, purity, usable plants, seed health etc.)

NAL Accredited Companies

- Bejo Zaden B.V.
- De Ruyter Seeds NL BV
- Enza Zaden Seed Operations B.V.
- Germain's Technology Group
- INCOTEC International B.V.
- Nickerson-Zwaan B.V.
- Nunhems Netherlands B.V.
- Rijk Zwaan Production B.V.
- Monsanto Holland B.V.
- Syngenta Seeds B.V.
- VILMORIN S.A.
- Western Seed International B.V.