



Animal &  
Plant Health  
Agency

# **Great Britain and Northern Ireland Variety List Trials: Trial Procedures for Official Examination of Value for Cultivation and Use (VCU) Harvest 2026**

**Lupin appendices**

**April 2025**

## Changes since last version

- Updated year of document and date of last update
- Updated email link to national archives at end of document
- Updated Appendix 4
- Updated Appendix 5
- Updated references of NL to VL

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# Scope

This document contains the appendices for the main guidance document:

- Trial Procedures for Official Examination of Value for Cultivation and Use (VCU)  
Harvest 2026 – Lupin

## Appendix 1 – Approved Trial Organisers/Operators for spring lupin

Activity	Organisers/Operators responsible
Trial design and data handling operator	Niab
Trials organiser	BSPB
Pathology trials operator	None
Trial inspection	PGRO
Technical validation operator	Niab
Quality testing operator	Niab
Data review and standard setting operator	Niab

## **Appendix 2 – Seed treatment products for use on VL trials**

To be arranged with Trials Organiser.

## Appendix 3 – Seed dispatch deadline dates

VCU seed must be delivered to each Growing Trials Operator/ Seed Handling Operator by:

- Winter Lupin: 15 August
- Spring Lupin: 1 December

## Appendix 4 – Growing Trial Operators and trial locations

### 4.1 Winter Lupin

Growing Trial Operator	Seed Handling Operator (if not trial operator)	Location of Trial
To be confirmed	Niab and SHU	To be confirmed

### 4.2 Spring Lupin

Growing Trial Operator	Seed Handling Operator (if not trial operator)	Location of Trial
To be confirmed	Niab, SHU	To be confirmed



## **Appendix 5 – Control varieties for VCU assessments**

The control varieties are:

- To be confirmed – blue
- To be confirmed – white
- To be confirmed – yellow

## Appendix 6 – Dates by which records should be submitted

### 6.1 To Trials Organiser

Record	Latest date of receipt by Trials Organiser
Site data part 1 (including site sketch)	Within 1 month of drilling trial
Site data part 2	By the time trial is harvested
Plot records (in approved electronic format)	Growing Trial Operator should notify Trials Organiser that trial has been harvested within 2 days of harvest

### 6.2 Plot records to Data Handling Operator

Record	Date
Plot records should be sent to Data Handling Operator	Within 10 days of record being taken

### 6.3 Plot samples to Quality Testing Operator

Samples	Date
Plot samples for quality testing should be sent to Quality Testing Operator	Within 2 days of harvest

## Appendix 7 – Growth Stages of Lupin

Adapted from Lupin Development Guide (Dracup and Kirby 1996) University of Western Australia Press.

Main Growth Stage	Code	Definition
Germination and Emergence	0.0	Dry seed
Germination and Emergence	0.1	Imbibed seed
Germination and Emergence	0.3	Radicle apparent
Germination and Emergence	0.5	Germination (Radicle length 5mm)
Germination and Emergence	0.7	Hypocotyl protruding through seed coat
Germination and Emergence	0.9	Emergence

Main Growth Stage	Code	Definition
Leaf Emergence	1.1	1 <sup>st</sup> pair of leaves protruding beyond upright cotyledons
Leaf Emergence	1.2	2 <sup>nd</sup> pair of leaves emerged
Leaf Emergence	1.3	3 <sup>rd</sup> pair of leaves emerged
Leaf Emergence	1.n	N pair of leaves emerged

Main Growth Stage	Code	Definition
Stem Elongation	2.1	Little separation between bases of leaves
Stem Elongation	2.3	Bases of some basal leaves clearly separated
Stem Elongation	2.5	Bases of several leaves clearly separated from each other inflorescence
Stem Elongation	2.7	Influence bud clearly visible
Stem Elongation	2.9	Inflorescence bud clearly separated from base of highest leaf

Main Growth Stage	Code	Definition
Flowering	3.0	Bracts completely hiding corolla
Flowering	3.1	Pointed bud stage
Flowering	3.4	Open flower stage
Flowering	3.5	Coloured corolla stage
Flowering	3.7	Senescent corolla stage
Flowering	3.9	Pod set

Main Growth Stage	Code	Definition
Pod Ripening	4.0	Young, green pod. No septa between seeds abutting.
Pod Ripening	4.1	Young, green pod. No septa between seeds; seeds separating
Pod Ripening	4.2	Green pod, slight bulging of walls, seeds filling 50% of space between septa.
Pod Ripening	4.3	Seeds filling 75% of space
Pod Ripening	4.5	Green pod, septa split
Pod Ripening	4.7	Pod turning khaki coloured
Pod Ripening	4.9	Pod pale reddish-brown and wrinkled

Main Growth Stage	Code	Definition
Seed Ripening	5.0	Seed small, dark green, with watery contents
Seed Ripening	5.3	Seed large, green, little watery contents
Seed Ripening	5.5	Seed large, light green to pale greyish-blue coat, green cotyledons
Seed Ripening	5.7	Seed large and soft, pale fawn coat, yellow to golden orange cotyledons
Seed Ripening	5.8	Seed hard but dentable
Seed Ripening	5.9	Seed hard and ripe for harvest



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