

SUPERIOR COTTON PLANTING

**with Unique Technologies
from Loveland Agri Products**

Australian cotton has a reputation for high quality and high productivity, boasting yields that are more than three times the world average.¹ The Loveland Agri Products' range can help cotton growers maintain their leading edge and maximise their return on investment by setting the stage for a high performing crop early in the growing season. Our next-generation products for superior cotton production support soil and plant health to continue to help Australian cotton growers produce more crop per drop.

This guide focuses on key Loveland products that can be used to enhance the growth and performance of irrigated and dryland cotton. These products are typically used early to mid-season.

The logo for Foundation LM, featuring the word "Foundation" in a white serif font on a blue rectangular background, followed by "LM" in a smaller white sans-serif font on a white rectangular background.

FoundationTMLM

The logo for LoKomotive, featuring the word "LoKomotive" in a black sans-serif font, with the "K" in green. To the right is a green and white icon of a combine harvester.

LoKomotive

The logo for Radiate, featuring the word "Radiate" in a stylized, cursive green font with a yellow outline.

Radiate[®]

Applied at Planting/In-Furrow

FoundationTMLM

Biocatalyst Technology

FoundationTM LM is a biochemical fertiliser catalyst formulated for liquid applications. It contains concentrated biochemistry that helps improve the availability of a wide variety of nutrients from liquid fertilisers and soil nutrient sources, including crop residues. Foundation LM can be applied at cotton planting to improve nutrient availability, increase nutrient uptake and maximise nutrient use efficiency.

Key Benefits in a Cotton Program:

Foundation LM is an easy-to-use, cost-effective and safe method of making phosphorus more available to the plant at emergence and at early seedling stage. It helps to increase phosphorus efficiency by converting organic phosphorus into the plant-available, inorganic form.

Rate & Timing:

Apply at 5L/ha in-furrow at planting.

Get the most out of your applied fertiliser and existing soil nutrients by adding Foundation LM to your liquid planting program.



Foliar Application

The logo for Radiate, featuring the word "Radiate" in a stylized, cursive font with a white outline and a drop shadow effect.

Plant Growth Hormone Technology

Radiate® is an early season APVMA-registered foliar plant growth regulator that contains balanced amounts of indolebutyric acid (IBA) and other nutritional ingredients that are designed to promote root and shoot growth, improving overall plant vigour.

Key Benefits in a Cotton Program:

Radiate hormonally induces adventitious root growth to maximise early crop establishment, giving plants greater access to nutrients and moisture. *The benefit of improved vigour is the plant's ability to mitigate seasonal stress events. It also lays the foundation to build a robust plant structure that optimises yield potential.* Radiate is very compatible with other commonly used crop protection products - including glyphosate. Adequate leaf coverage is critical to maximise performance. Refer to the label for specific recommendations.

Rate & Timing:

Apply 150-300ml/ha as a foliar spray at 2-6 true leaf stage.

A photograph of a cotton field with rows of young cotton plants in the foreground, receding into the distance. The plants are small and green, and the soil is dark brown. The image is slightly blurred in the background to create a sense of depth.

Use Radiate early to boost roots, increase plant vigour and set the plant up for optimum yield.



LoKomotive® is a liquid potassium acetate formulation that has been specifically designed to provide maximum potassium uptake with minimal potential for phytotoxicity. Research has demonstrated the potassium acetate compound to be one of the highest plant-available forms of foliar-applied potassium. LoKomotive is able to translocate potassium acetate efficiently through the leaf, while avoiding leaf burn or salt deposits on leaves.

Key Benefits in a Cotton Program:

Adequate potassium in cotton assists bolls to finish lint fill with high quality fibre (staple length and micronair).

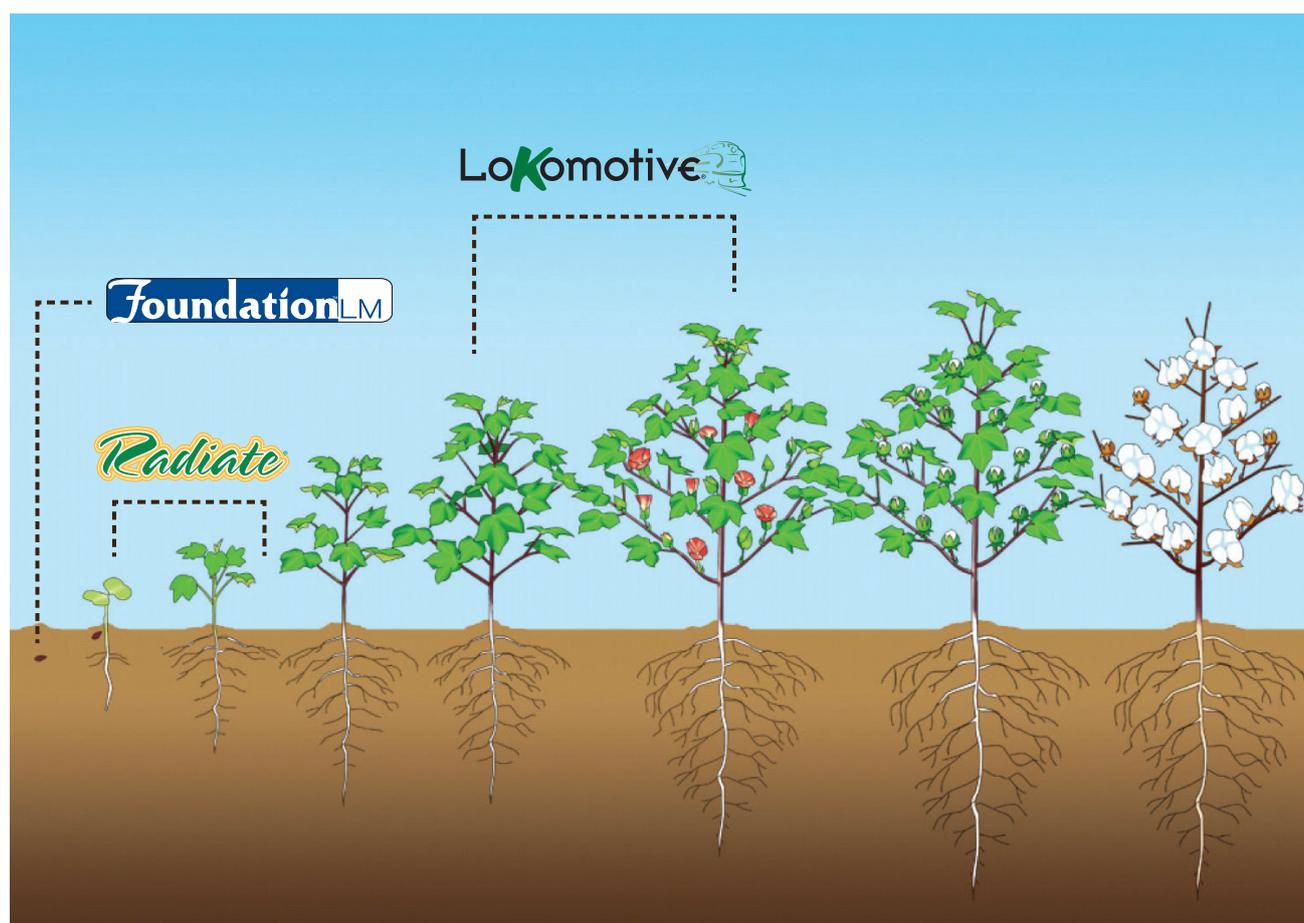
Rate & Timing:

To get the maximum benefit from foliar-applied LoKomotive, apply from first flower to peak boll fill. Early split application – Apply foliar at 2 x 5L/ha from first flower to peak flower. Later single application – Apply foliar at 10L/ha at peak boll fill.



LoKomotive is a high-analysis, safe and easy-to-use source of foliar potassium.

When to Use Foundation LM, Radiate and LoKomotive in an Agronomic Program on Cotton



Recommended Cotton Timing & Rates

Product	Timing	Rate	Comments
	Apply at planting	5L/ha in-furrow	Biocatalyst for increasing nutrient availability and uptake; Can apply alone or with liquid starter fertilisers
	Apply at 2-6 true leaf stage	150-300mL/ha foliar	Early season foliar PGR stimulating root growth; Can be tank mixed with glyphosate in RR cotton
	Apply from flowering through peak boll fill, depending on tissue tests results	2 x 5L/ha or 1 x 10L/ha	2 x 5L/ha or 1 x 10L/ha

Summary:

Foundation LM, Radiate and LoKomotive from Loveland Agri Products play an important part in any agronomic cotton program. These unique technologies can help improve nutrient availability, increase root growth and enhance plant vigour, resulting in a more efficient utilisation of nutrients. This equates to a healthier crop, a stronger plant and improved boll set—helping Australian cotton growers continue to achieve the highest possible yields and quality.

References:

1. Cotton Australia 2018. <http://cottonaustralia.com.au/>



Contact Your Local Nutrien Ag Solutions Agronomist

Loveland Agri Products

lovelandagriproducts.com.au



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