

vrm
BioLogik



we must replace what
we take from the earth



xlr8[®]



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VRM Biologik® produces a range of products which deliver the key benefits arising from its Bio-Regen® process. This process captures unused food waste and uses it to stimulate reactions and generate substrates which are important for soil. The resulting XLR8® products stimulate reactions in soil which enhance nutrient availability.

XLR8® products stimulate natural reactions which:

- **Promote soil structure**
- **Unlock nutrients**
- **Manufacture Water**
- **Mobilise Phosphorus**



XLR8® products foster bacterial photosynthesis which captures carbon dioxide from the air and uses it to make and store carbon compounds in the soil where plants need it.

Hydrosynthesis

Hydrosynthesis is a life preserver. VRM Biologik® has pioneered the manufacture and deployment of formulations which stimulate bacterial photosynthesis as a way to energise depleted soils. An important by-product of bacterial photosynthesis is Hydrosynthesis: the manufacture of water! Use of these products helps you build the basic biomass which, with good management, will help maintain water availability in your soil.

Bio-Accelerants

VRM Biologik's XLR8® products deliver a range of micro nutrients and biological substrates which combine to trigger natural reactions in soil which help to feed plants. These reactions also help stimulate carbon sequestration and nitrogen fixation naturally in soil. With continued use these reactions help build humus and rejuvenate topsoil.



- Bio-basics for your business
- Recycled energy plus recycled nutrient
- Use to build the biological base of your soil

XLR8® Bio is a formulation combining the key technologies pioneered by VRM Biologik® for soil enhancement and nutrient management. This product helps stimulate biological reactions in soil which enhance carbon sequestration and biological nitrogen fixation. With continued use, this activity contributes to humus building and enhances mycorrhizal activity in the critical root zone. Regular use of XLR8® Bio stimulates the natural biological activity responsible for water manufacture in soil. XLR8® Bio is best used in tandem with VRM Biologik®'s HumiSoil®.

This table gives a general application guide. Please consult your VRM Biologik® representative for an application regime specific to your crop and conditions.

Application Per Sprayed Hectare / Acre		
Ground	XLR8® Bio	Water
XLR8® Bio alone	2 - 50 L per Ha / 0.5 - 10 Gal per Acre	100 - 1000L
Combination Use	2 - 50 L per Ha / 0.5 - 10 Gal per Acre	100 - 1000L
Foliar	XLR8® Bio	Water
XLR8® Bio alone	2 - 50 L per Ha / 0.5 - 10 Gal per Acre	300 - 2000L
Combination Use	2 - 50 L per Ha / 0.5 - 10 Gal per Acre	300 - 2000L
Fertigation		
XLR8® Bio and	2 - 50 L per Ha / 0.5 - 10 Gal per Acre. Apply regularly through centre pivot	
Combination Use	system. This product is compatible with micro dripper systems.	

Note: In general XLR8 Bio® is applied at the same time plants would normally be fed. Intensive crops may require more frequent applications.

xlr8[®] **cr**

XLR8[®] cr is a digestion accelerator which targets the reincorporation of crop residues to soil.

xlr8[®] **R**

XLR8[®] Rumen is a digestive aid that stimulates natural biological reactions needed for feedstock digestion in ruminant animals.

xlr8[®] **Sil**

XLR8[®] Sillage promotes low temperature fermentation and stimulation of natural biological reactions in collected cattle feed.

xlr8[®] **K**

XLR8[®] K is a potassium mobiliser that stimulates natural biological reactions responsible for solubilising and mobilisation of a pool of available potassium in soils.





XLR8® N is a formulation that stimulates nitrogen sequestration in a soil environment.



XLR8® P is a phosphorus mobiliser that stimulates natural biological reactions responsible for solubilising and mobilisation of a pool of available phosphorus in soils.



XLR8® Ca is a calcium mobiliser that stimulates natural biological reactions in soil responsible for the uptake of calcium in grain, fruit and vegetable crops.

Application

All XLR8® products may be applied through aerial spray, trickle irrigation or with other irrigation systems. Refer to product labels and consult your advisor for application rates suited to your crop, soil type and circumstances.

This table gives a general application guide. Please consult your VRM Biologik® representative for an application regime specific to your crop and conditions.

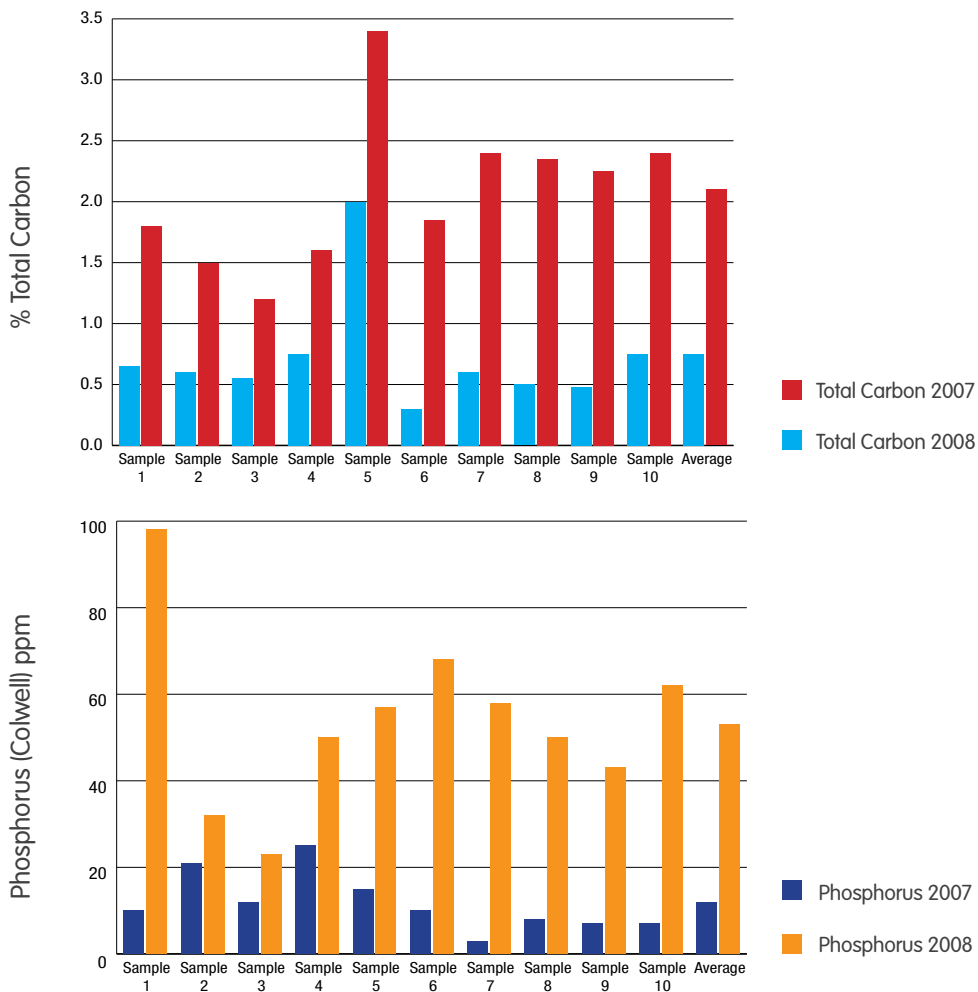
Application Per Sprayed Hectare / Acre		
Ground	XLR8®	Water
XLR8® alone	3 - 5L per Ha / 0.5 - 2Gal per Acre	100L
Combination Use	3 - 5L per Ha / 0.5 - 2Gal per Acre	100L
Foliar	XLR8®	Water
XLR8® alone	3 - 5L per Ha / 0.5 - 2Gal per Acre	200L
Combination Use	3 - 5L per Ha / 0.5 - 2Gal per Acre	200L
Fertigation		
XLR8® and	Apply regularly through centre pivot system.	
Combination Use	This product is compatible with micro dripper systems.	

Case Study: Broad acre wheat and barley cropping, NSW Australia

Simultaneous improvement in soil biomass and diversity of microbial development while in transition to a lower fertiliser regime is something sought by many growers. Greater urgency comes from the growing need for soil structure management (to prevent erosion and wind-blown losses) and for moisture retention.

These trials studied a transition to significantly reduced nutrient application while simultaneously applying products which fostered specific microbial development in soil.

Widespread soil tests were conducted in 2007 and 2008 by Charles Sturt University. These have highlighted significant improvements in Total Carbon and Phosphorus availability levels.



Testimonials

'I'm saving the reef without trying... I'm building soil structure and have less erosion... there is less wear on the machinery which is a benefit in cost, less abrasive soil, and we use less fuel. Healthier soil means less drama'.

B. Clerk (*Sugar cane farmer*) **Herbert Valley, Australia**

'Our Carbon levels were terrible. Since we have been using VRM Biologik® products our Carbon has been increasing steadily from 0.01% up to 3.0%. Also, our soil isn't as compacted and we have more phosphorus that is plant available'.

M. Haselton (*Sweet corn farmer*) **Burdekin, Australia**





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