




Vitalnova[®] Links



2 proven biostimulants,
1 winning formulation.



Vitalnova Links is a new formulation that is designed to **improve turf health and quality** without creating artificial growth. It contains the concentrated seaweed extract “**Vitalnova SMX**” combined with the proven biostimulant “**Vitalnova Blade**”.



**Vitalnova[®]
Blade**

Vitalnova Blade is a totally unique biostimulant for turf, containing a carefully engineered concentration of carbohydrates (sugars), seaweed and micronutrients.

- Increases root-mass by up to 40%
- Up to 50% increase in levels of beneficial bacteria
- Stimulates root dwelling microbes to improve nutrient uptake



**Vitalnova[®]
SMX**

Vitalnova SMX is a sustainably harvested, alkaline extracted, *Ascophyllum nodosum* seaweed extract which has been well researched for its effects on turf.

- Helps enhance root development
- Shown to improve turf quality and colour
- Helps condition turf against stress
- Highly concentrated Atlantic *Ascophyllum nodosum*

"After the drought of 2018, we lost a high proportion of our grass coverage on the fairways at The Royal St Georges golf course. Having spent years cultivating our fescue surface to be as pure as possible, it was a horrifying thought that we were having to over-seed once again. I was after a biostimulant that was going to encourage seedling growth, mature the sward and provide strength. My ICL representative suggested two biostimulants from their Vitalnova range, Blade and SMX.

I looked into the technical data that supported both products, and we trialled a 2 part mix that worked brilliantly. I was adamant that the formulation should be iron free, but the colour response from the applications is incredibly natural. I then suggested that ICL develop a pre-blended formulation of both products, which would make filling the sprayer easier, especially when mixing it with other favourites like my fairway wetting agent H2Pro TriSmart.

We've been using that formulation for 2 years and ICL are now launching Vitalnova Links as a standalone product. It's helped us right through from germination to mature turf whilst improving turf health and rooting."

Paul Larsen
Head Greenkeeper
The Royal St George's Golf Club



Benefit from better turf

Product characteristics

Formulation type:	Liquid
Technology:	Biostimulant
Pack size:	200 and 1000 litre
Pack coverage :	6.66 - 10 ha (200 litre pack)
Contains:	Seaweed extract, molasses, NPK (Oxide 3.2-3.9-1.7, <i>Elemental 3.2-1.7-1.4</i>).

Application information

Application rate:	20-30 L/ha
Water volume:	400-600 L/ha

Recommended period of use



Researched, formulated and produced in-house by **ICL**

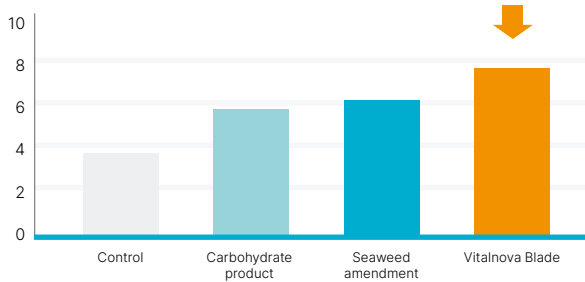


Vitalnova Blade

- ✓ Increased mycorrhiza (Royal Holloway research)
- ✓ Increased mycorrhizal populations (Royal Holloway research)
- ✓ Improved root-mass (STRI research)

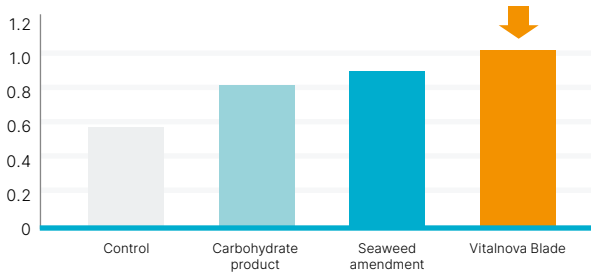
Increased Mycorrhiza activity

Vitalnova Blade demonstrated an increase in indigenous mycorrhiza levels.



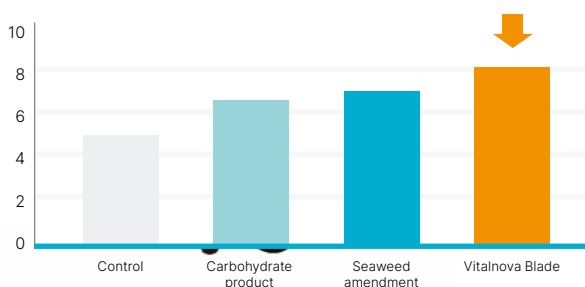
Higher bacterial abundance

Vitalnova Blade demonstrated up to 50% increase in beneficial bacteria levels.



Increased root biomass

Vitalnova Blade demonstrated up to 40% increase in root-mass.

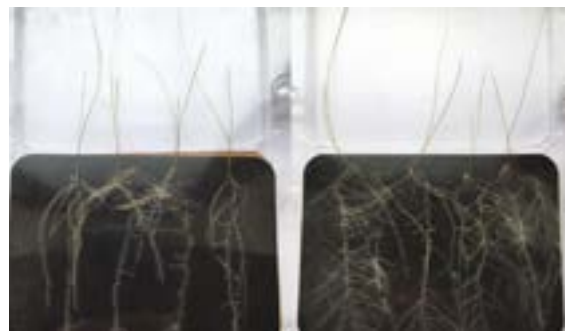


Vitalnova SMX

- ✓ Improved rooting (ICL trials)
- ✓ Improved stress tolerance (ICL international trials - Spain)
- ✓ Maintains turf quality through autumn (STRI)

Trials show improved rooting

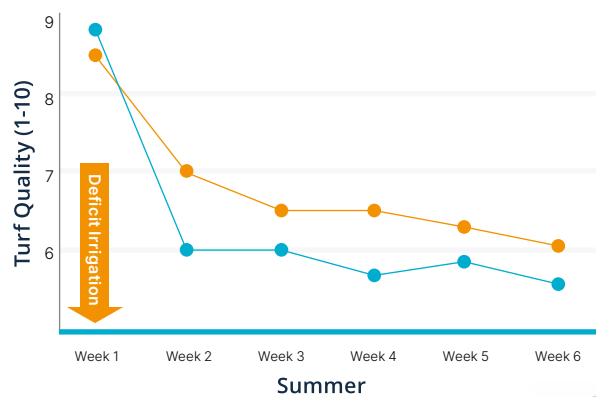
SMX significantly increased total root surface area of Perennial ryegrass.



Perennial Ryegrass seedlings grown with nutrient control (equivalent NPK).

Perennial Ryegrass seedlings grown with one application of SMX at label rate.

Impact of drought stress



- Seaweed Powder KOH extract
- Control

"We are a free draining heathland course with predominantly fescue fairways.

Following a solid recommendation from our ICL Technical Sales Manager, we've been applying a monthly programme of Vitalnova Links plus H2Pro AquaSmart to our fairways and approaches.

The low ratios of NPK plus the additional micronutrients in Vitalnova Links have really helped the condition, health and appearance of our fairways.

The formulation allowed us to tackle spots of Red thread early in summer, with the added bonus that the formulation does not produce a growth flush on application.

Vitalnova Links has produced some impressive results when we have applied at 40L/ha."

**Ian Nichols BSc (Hons)
Deputy Course Manager
Orsett Golf Club**



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