

lifescientific

ENGINEERED BENEFITS

ESKER®



ESKER

ESKER contains 160 g/l prothioconazole and 80 g/l tebuconazole and is a broad-spectrum systemic fungicide for disease control in winter & spring crops of wheat, barley, oats, oilseed rape and winter rye.

ESKER is an emulsifiable concentrate formulation suitable for use alone or in combination with a wide range of other fungicides, herbicides and insecticides to provide effective control of key diseases in oilseed rape and cereals, and a reduction of mycotoxins in wheat.

It is a reverse-engineered Kestrel.

For more information including product label, safety data sheet and compatible tank-mixes see the Life Scientific website

<https://lifescientific.com/products/uk/oraso-pro/>

or download the App to get product information direct to your phone.

Product Uses

CROP	MAX IND. DOSE	MAX TOTAL DOSE	LATEST APPLICATION
Wheat and Winter rye	1L/Ha	2 L/Ha per crop	Before grain milky ripe stage (BBCH 71)
Barley and Oats	1L/Ha	2 L/Ha per crop	Up to the beginning of flowering (BBCH 61)
Oilseed rape	1L/Ha	2 L/Ha per crop	56 days before harvest

Diseases controlled

CROP	DISEASES
Wheat	Eyespot (reduction of the incidence and severity), Septoria (leaf and glume blotch), Powdery mildew, Yellow rust, Brown rust, Tan spot, ear disease complex (Fusarium ear blight, reduction of deoxynivalenol) and reduction of sooty moulds.
Barley	Eyespot (reduction of the incidence and severity), Powdery mildew, Yellow rust, Brown rust, ear disease complex (moderate control of Fusarium ear blight and reduction of sooty moulds), Rhynchosporium, Net blotch.
Rye	Eyespot (reduction of the incidence and severity), Powdery mildew, Brown rust, Rhynchosporium.
Oats	Eyespot (reduction of the incidence and severity), Crown Rust, Powdery mildew.
Oilseed rape	Phoma leaf spot/stem canker, Sclerotinia stem rot and Light leaf spot.

Note: Resistance to some DMI fungicides has been identified in Septoria leaf blotch and strains of resistant Light leaf spot are known to exist.

Ideal for use at T3

ESKER combines the strengths of two key DMI active ingredients, prothioconazole and tebuconazole, giving broad spectrum disease control in both cereals and oilseed rape. It has a wide range of compatibilities with other fungicides and can be used throughout the fungicide programme.

ESKER can be very useful as a T3 spray as it has activity against the ear disease complex, giving moderate control of Fusarium ear blight, and reducing the incidence of sooty moulds, giving cleaner brighter ears. It can also reduce deoxynivalenol (DON) levels in the grain.

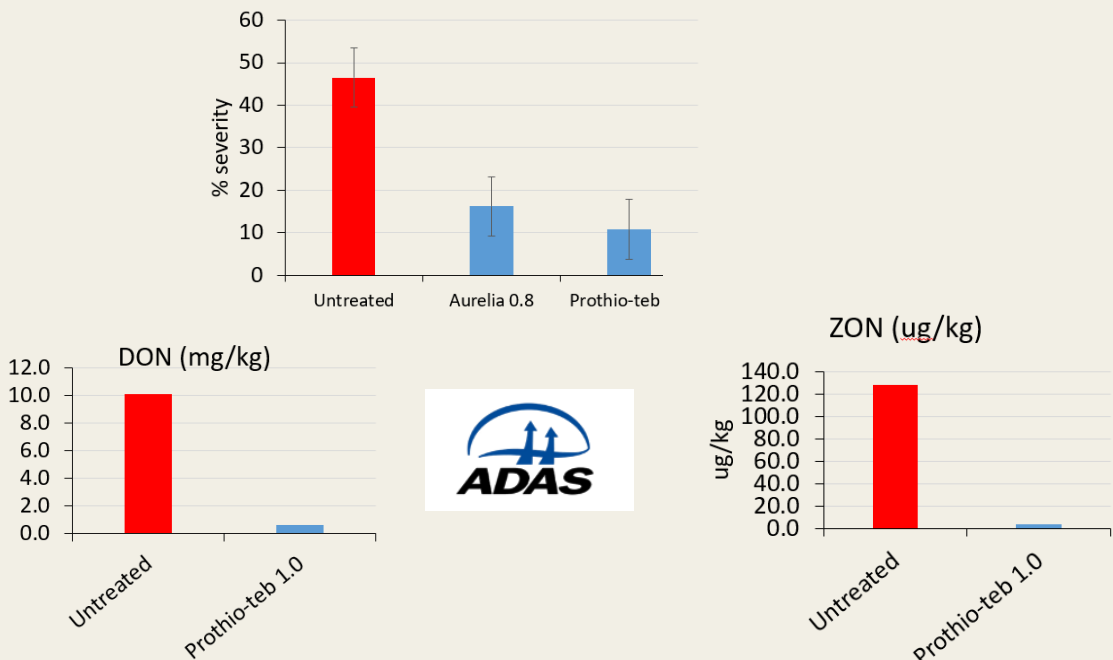
Symptoms of fusarium ear blight can range from pink/orange spores on infected grains to bleached spikelets, or no obvious symptoms at all. Yield reduction can be up to 10 or 30% depending on the species present and level of infection.

Ear blight is caused by a range of fusarium and Microdochium species including *F.culmorum*, *F.graminearum*, *F.poae*, *F.langsethiae*, *F.avenaceum*, *M.nivale* and *M. majus*. *F.graminearum* and *F.culmorum* are also important as they can produce the mycotoxins, DON (deoxynivalenol) and ZON (zearalenone). There are strict limits for these mycotoxins on grain for human consumption, with a maximum of 1250 ppb (1.25 mg/kg) for DON and 1000 ppb (100 ug/kg) for ZON. Unfortunately, there is no clear correlation between ear symptoms and levels of mycotoxin.

Reducing mycotoxin levels by controlling fusarium species is important but bleaching alone can reduce yield by up to 30%.

The fungi infect the crop during flowering, with warm humid or wet weather favouring development of the infection. Rotation can also play a part in risk of developing the disease with rotations containing maize being at higher risk.

Controlling ear blight with a T3 spray also gives an opportunity to top up late rust or septoria programmes. Timing is critical for control, with application from GS59 (full ear emergence) up until the end of flowering (GS69). The active ingredients, prothioconazole and tebuconazole have good activity against ear diseases.



ADAS conducted work for Life Scientific at their Gleadthorpe site in 2020 and 2021, demonstrating that prothioconazole (AURELIA) and a prothioconazole/tebuconazole co-formulation such as ESKER can be very effective in reducing severity of fusarium. They also showed that the co-formulations were useful for reducing DON and ZON levels.

Disease control in oilseed rape

As with cereals, the combination of prothioconazole and tebuconazole provides excellent activity against the key diseases of oilseed rape – Light leaf spot, Phoma leaf spot/stem canker and Sclerotinia.

For control of Phoma, ESKER should be used in the autumn at 1.0 L/Ha, when crops reach the threshold of 10-20% leaves with Phoma lesions. A follow-up treatment can be made if required.

For protection against Light leaf spot, the same dose should be used before disease is established.

An application of 1.0 L/ha when crops are in full flower will protect against Sclerotinia stem rot, the main disease to consider from flowering onwards. ESKER should be used as a protectant, and application should give good leaf coverage to prevent lesions passing to the stem, leading to potential stem breakages and lodging. In a high-risk season of high humidity and night-time temperatures over 7 degrees, a two-spray programme should be considered with the first application at yellow bud to early flowering and the second around three weeks later.

As well as providing fungicidal activity, the tebuconazole in ESKER can also have a plant growth regulation effect when used at 1.0 L/Ha.

In a year when growth regulation is required, crops receiving an effective programme can have a higher yield potential due to increased seed set and reduced lodging.

About Life Scientific

We specialise in bringing high quality off-patent crop protection products to market. Our goal is to give our customers better options to meet their plant protection needs.

So if it's under the Life Scientific brand you can be confident it's as effective as the current leading standards in the market.

For product queries in the UK, call our new free phone helpline 0800 044 5025 or email infoUK@lifescientific.com

ESKER and AURELIA are registered trademarks of Life Scientific. AURELIA contains prothioconazole. ESKER contains prothioconazole and tebuconazole.

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