

# ZADE Liquid for Poultry

## Potent Vitamin A, D and E concentrate

ZADE Liquid has been developed to treat diseases associated with impaired immunity. The most common cause of impaired immunity in poultry is secondary vitamin A deficiency which predisposes to respiratory disease and reproductive problems. Vitamin A deficiency leads to opportunistic infections of the upper respiratory tract, which often present as symptoms of the eyes, sinus and throat. These opportunistic infections are diagnosed through culture testing (see attached brochure). Secondary vitamin A deficiency is also directly linked to the development of egg laying problems, breeding failures and male infertility as well as other conditions such as gizzard impaction, bumblefoot and ear infections. The most common opportunistic respiratory infections of poultry and their symptoms are explained in detail on our webpage.

Seasonal outbreaks of respiratory diseases are common in poultry flocks with vitamin A deficiency because they are unable to thermoregulate properly. This predisposes to the harmful effects of cold stress in winter and heat stress in summer. Outbreaks of respiratory diseases and reproductive problems are therefore most prevalent during winter and summer months when stressful environmental conditions (e.g. sudden temperature fluctuations, heat/cold stress, heavy rains, strong winds, thunderstorms and predators) coincide with peak egg production, overcrowding of pullets (12-20 weeks of age), when pullets reach point of lay (16-24 weeks of age) and when new birds are acclimatizing to their new surroundings and may introduce latent respiratory disease to the flock. During these high-risk periods of infection, the increased demands for vitamin A, as well as calcium and zinc, must be matched by increasing vitamin A intake. This is when ZADE Liquid as a potent source of vitamin A and F-vite PLUS as a complete mineral and calcium supplement are most valuable in preventing opportunistic respiratory infections and reproductive failures when given prior to and during known periods of increased risk.

ZADE administration varies according to the needs of the flock. For sick birds with opportunistic infections, ZADE is initially given for three consecutive days together with prescribed antibiotics (See Immediate Treatment Plan). To prevent outbreaks of respiratory disease ZADE is given for two consecutive days each week for 8 weeks prior to and during anticipated high-risk periods of infection (See Prevention Plan). ZADE is also given for 2 days each week as part of the Gold Standard Breeding Plan which is by far the best method to improve reproductive outcomes and guard against disease in pullets, point of lay pullets and breeding stock.

### ZADE Liquid: Immediate Treatment Plan

ZADE Liquid is incorporated into the immediate treatment plan following the diagnosis of an opportunistic infection. It is added to the drinking water for 3 consecutive days and can be mixed with antibiotics to promote a rapid recovery. This plan includes targeted treatment for any infection identified through culture testing.

ZADE Immediate Treatment Plan			
	In Drinking Water	Medication Plan	Mixed with grain
<b>Day 1</b>	ZADE Liquid	<i>5 - 7 day medication plan as prescribed</i>  <i>A prebiotic (V8 Powder) is given with Turbobooster, E Powder and Fvite on the food on day 6 -7 of this plan.</i>	Turbobooster, E Powder & Fvite
<b>Day 2</b>	ZADE Liquid		Turbobooster, E Powder & Fvite
<b>Day 3</b>	ZADE Liquid		Turbobooster, E Powder & Fvite
<b>Day 4</b>	Quikgel & HiCal		Turbobooster, E Powder & Fvite
<b>Day 5</b>	Quikgel & HiCal		Turbobooster, E Powder & Fvite
<b>Day 6</b>	Fresh water		Turbobooster, E Powder & Fvite
<b>Day 7</b>	KD Powder (at completion of antibiotics)		Turbobooster, E Powder & Fvite

## ZADE Liquid: Prevention Plan

ZADE Liquid is most effective at preventing respiratory and other diseases when given to susceptible birds prior to periods of increased nutritional demands. The most susceptible birds are vulnerable varieties, birds under 20 weeks of age (pullets), birds at point of lay (16-24 weeks of age), hens at peak egg production and all birds during the peak summer moult. For example, for those preparing pullets for sale as point of lay chickens this vitamin A booster plan should commence when pullets are 12 weeks of age and continue for 8 weeks. This prevention plan also follows the immediate treatment plan for any flock recovering from diseases associated with vitamin A deficiency. ZADE Liquid is added to the drinking water for 2 consecutive days each week for 8 weeks to prevent reinfection by fully restoring immune function and replenishing depleted vitamin A liver reserves to maximum levels.

ZADE Prevention Plan – 8 weeks		
	In Drinking Water	Mixed with grain
<b>Day 1</b>	<b>ZADE Liquid</b>	Turbobooster, E Powder & Fvite
<b>Day 2</b>	<b>ZADE Liquid</b>	Turbobooster, E Powder & Fvite
<b>Day 3</b>	KD Powder	Turbobooster, E Powder & Fvite
<b>Day 4</b>	Dufoplus, Ioford & Megamix	Fresh grain
<b>Day 5</b>	Fresh water	Fresh grain
<b>Day 6</b>	Fresh water	Fresh grain
<b>Day 7</b>	Fresh water	Fresh grain

## ZADE Liquid: Maintenance

Outside of periods of increased vitamin A demands the frequency of ZADE Liquid administration is reduced 1 day each week. This will maintain optimal vitamin A liver reserves and continued health as long as vitamin A liver reserves have been restored to maximum levels beforehand.

## ZADE Liquid: Gold Standard Breeding Plan

ZADE Liquid is given for 2 consecutive days each week as part of the Gold Standard Breeding Plan to support the vitamin A, D & E needs of breeding stock. This plan promotes fertility, strong egg production and the development of disease resistant young. Importantly, the immune boosting action of ZADE Liquid helps prevent respiratory and other opportunistic infections in pullets and at point of lay when the demand for vitamin A is at its greatest.

ZADE Gold Standard Breeding Plan		
	In Drinking Water	Mixed with grain
<b>Day 1</b>	<b>ZADE Liquid</b>	Turbobooster, E Powder & Fvite
<b>Day 2</b>	<b>ZADE Liquid</b>	Turbobooster, E Powder & Fvite
<b>Day 3</b>	KD Powder	Turbobooster, E Powder & Fvite
<b>Day 4</b>	Dufoplus, Ioford & Megamix	Turbobooster, E Powder & Fvite
<b>Day 5</b>	Fresh water	Turbobooster, E Powder & Fvite
<b>Day 6</b>	Quikgel & HiCal	Turbobooster, E Powder & Fvite
<b>Day 7</b>	Quikgel & HiCal	Turbobooster, E Powder & Fvite