



# Adisseo Microvit™ Promix Biotin 2%

## To improve hoof structure and to improve milk production in ruminants (cattle, sheep, goats)

Biotin is well known for its use in hoof development in a number of animal species. Poor hoof strength and integrity can lead to laminitis, lameness, and subsequent losses in milk production.

Calving and early lactation places exceptional stress on the cow/ewe/doe, and can result in lowering the immune defences. In addition, abrupt diet changes can lead to rumen acidosis which is strongly linked with laminitis. Wet conditions during 'spring calving' can lead to softer hoof tissue, as can long walking distance to the shed; there are a number of factors challenging the animal.

Biotin, a water soluble B-Vitamin (Vitamin B7 or commonly referred to as Vitamin H) has long been known to have a positive role in the growth of keratin an essential component of hard hooves. In addition, it's used in a number of important metabolic pathways including synthesis of glucose, fat and protein. While naturally occurring in many feeds, it is not always readily bio-available, so there are periods when supplementing is beneficial, especially the high stress calving and early lactation period.

Trials have shown that cows treated with 20mg Biotin/day over this period had higher locomotion scores and lower Somatic Cell Counts. Evidence also suggests that, due to improved glucose synthesis and fibre digestion, Biotin can increase milk production independent of hoof health.

Biotin can be dosed via your water reticulation system, or mixed thoroughly through on farm feed blends or added via your feed supplier.

### PACK SIZE: 25KG

## BIOTIN REQUIREMENTS

Daily dose rate	g/hd/day Biotin 2%	mg Biotin delivered	
<b>CATTLE</b>			
Dry, transition dairy cows	0.5g	10mg	Daily, or at least 1 month pre calving due to disruption in horn growth
Lactating Cows	1.0g	20mg	Daily, for at least the first 3 months of lactation
Heifers	1.0g	20mg	From service, or at least 3-4 months pre calving for optimum horn growth
Calves		0.05-0.1mg	Ideally purchased blended in CMR and starter feeds
Beef (Bulls & cows)	1.0g	20mg	Daily
<b>SHEEP &amp; GOATS</b>			
Dry, transition	*0.125g	2.5mg	Similar time frames as cattle
Lactating and older growing stock	*0.25g	5mg	

\*See dosing chart on back



## INCLUSION RATES...

### BEEF CATTLE OR LACTATING DAIRY COWS

20mg/hd/day of biotin = 1.0g/hd/day of biotin 2%

Feed Intake (kg/day)	Dose Rate of Biotin 2% (kg) for different Feed Intakes and Feed Ration volumes				
	FEED BLEND				
	12MT	24MT	26MT	28MT	30MT
1	12	24	26	28	30
1.5	8	16	17.3	18.7	20
2	6	12	13	14	15
2.5	4.8	9.6	10.4	11.2	12
3	4	8	8.7	9.3	10

#### IMPORTANT

Halve dose for Dry Cows i.e., the inclusion of Biotin 2% in a 12MT load at 1kg feed rate would be 6kg.

Pre blend the dose with a carrier (such as lime flour) prior to adding to the feed mixer. This will help to ensure even and thorough distribution via the blend.

### GOATS & SHEEP

5mg/hd/day of biotin = 0.25g/hd/day of biotin 2%

Feed Intake (kg/day)	Dose Rate of Biotin 2% (g or kg) for different Feed Intakes and Feed Ration volumes				
	FEED BLEND				
	1t	2t	3t	5t	10t
200g	1250g	2500g	3.75kg	6.25kg	12.5kg
400g	625g	1250g	1.87kg	3.12kg	6.25kg
600g	469g	938g	1.41kg	2.35kg	4.69kg
800g	312g	624g	936g	1.56kg	3.12kg
1000g	250g	500g	750g	1.25kg	2.50kg

#### IMPORTANT

Blend required quantity of Biotin into portion of ration, then blend through total ration, or blend the required quantity of Biotin into a portion of the ration or other additives, then through in-shed feeding system.



**BEC Feed Solutions** *Quality Ingredients for Quality Feed for Quality Food*

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