# **Cinnatube Test Report**

# 1. Operation before Dry Cow

#### 1.1: Preparation

1.1.1: Pre-dry cows separated to dry cow stall.

1.1.2: Drying date controls to 45-60 days before EDD.

1.1.3: Gestation test before dry cow.

# 1.2: Dry Cow Materials

1.2.1: Experimental Group: Cinnatube (Marabo)

1.2.2: Control Group I: Nafpenzal DC (Merck)

Control Group II: Orbenin EDC (Zoetis)

#### 2. Method

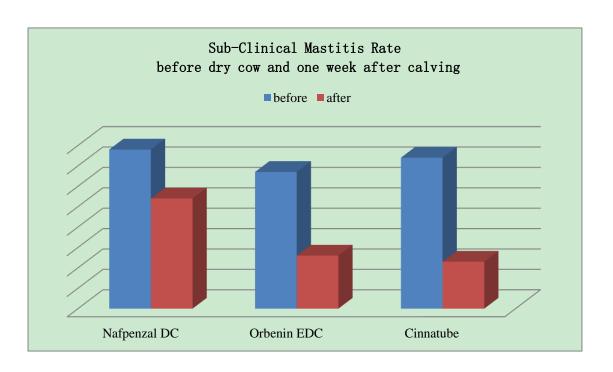
Study design in a free stall dairy herd in Heilongjiang province of China with Holstein cattle:

Group	No. of Cows	No. of Quarters	
Control Group I	125	500	
Nafpenzal DC	123	200	
Control Group II	125	500	
Orbenin EDC	123	300	
Experimental			
Group	250	1000	
Cinnatube			

#### 3. Results

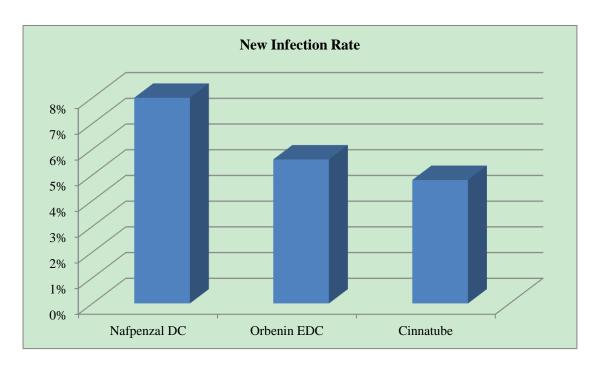
# 3.1 Mastitis test before dry cow and one week after calving:

Cwarra	No. of	CMT test before dry cow		CMT test after dry cow	
Group	Quarters	Normal	Mastitis	Normal	Mastitis
Control Group I	500	422	78	446	54
Nafpenzal DC	300	(84.40%)	(15.60%)	(89.20%)	(10.80%)
Control Group II	500	433	67	452	26
Orbenin EDC	500	(86.60%)	(13.4%)	(90.40%)	(5.20%)
<b>Experimental Group</b>	1000	852	148	954	46
Cinnatube	1000	(85.20%)	(14.80%)	(95.40%)	(4.60%)



# 3.2 New Mastitis Infections within one month after calving:

Group	Cow No.	New Infection No.	Rate
Control Group I	125	10	8.00%
Nafpenzal DC	123	10	8.00%
Control Group II	125	7	5.60%
Orbenin EDC	123	1	3.00%
<b>Experimental Group</b>	250	12	4.900/
Cinnatube	250	12	4.80%



# 3.3 Anaphylactic reaction within one week after dry cow:

Group	Cow No.	New Infection No.	Rate
Control Group I	125	5	4.00%
Nafpenzal DC	123	J	4.00%
Control Group II	125	2	2.400/
Orbenin EDC	125	3	2.40%
<b>Experimental Group</b>	250	0	0.000/
Cinnatube	250	U	0.00%

# 4. Conclusions:

Comparing to conventional therapy, Cinnatube has significant cure rate comparing to Nafpenzal DC, and similar cure rate to Orbenin EDC. And Cinnatube has significant lower new infection rate comparing to Nafpenzal DC, and similar new infection rate comparing to Orbenin EDC.

As an organic prooved dry cow sealant with no irritation to the cows, Cinnatube is a workable alternative to conventional antibiotic dry cow therapy.