

Product Description:

- **One-Step Acid Cleaner of Feed Equipment**
- **Barn/Pen Wash**
- **Colostrum & Milk Additive for Digestive Health and Preserving Freshness**
- **Preserve Water Freshness in Animal Tanks**

DK-II-CR (Dairy Keep-II) is a new, innovative, highly concentrated one-step feed contact equipment cleaner and freshness preservative of feed and water supplies. The combination of Ike-Joe and hydrogen peroxide (FDA GRAS ingredients) makes for a very safe and effective product for the farm and animal care industry. DK-II-CR is non-toxic and non-hazardous, in use dilution. DK-II-CR is produced following current Good Manufacturing Practices (cGMPs). DK-II-CR can easily be diluted at a customer's site to proper dilution through SCGS dispensers for any application.

DK-II-CR has been lab tested against the following organisms with very positive results.

- E. coli, Salmonella, Mycoplasma bovis, Cryptosporidium, Listeria, Staph. aureus, Strep. uberis

DK-II-CR Mode of Action:

- The combination of the Ike-Joe & hydrogen peroxide is very effective against disease organisms.
 - **Organism Makeup** - disease organism's cell walls are made up of polysaccharides, a carbon chain bound with calcium and magnesium.
 - **DK-II-CR Mode of Action** – two functions (reduction and preservation)
 - Ike-Joe - seeks the calcium and magnesium of the outer organism cell wall, breaking the binding of the cell wall apart.
 - Hydrogen Peroxide – seeks the carbon, which breaks the bond apart.
 - Ike-Joe – is not an oxidizer and remains in solution preserving colostrum, raw milk and water, which is a huge advantage over oxidizers.

Northland Laboratory Bulk Tank Whole Milk Test

Time	Temp (cel)	Control - Room Temperature				DK-II @ 2% - Room Temperature			
		pH	SPC	Coliform	e. coli	pH	SPC	Coliform	e. coli
Start	20.8	6.8	1300	400	20	6.80	1300	400	20
1-Minute	20.8	6.8	1300	400	20	6.49	1200	40	<10
15-minutes	20.8	6.74	1400	520	40	6.44	750	<10	<10
1-hour	22	6.7	2300	730	60	6.39	650	<10	<10
6-hours	21.9	6.71	260,000	54,000	70	6.40	110	<10	<10
10-hours	22	6.67	3,100,000	1,200,000	80	6.53	60	<10	<10
24-hours	19.6	6.61	240,000,000	12,000,000	140	6.58	<10	<10	<10

Using New Age Technology to Solve Today's Sanitation & Animal Care Challenges

DK-II-CR Tech Bulletin



DAIRY KEEP II WITH COLOSTRUM
2.0% CONCENTRATION
76 ML PER GALLON
38 ML PER 2 QUART BOTTLE
FED IN COLOSTRUM FIRST TWO BOTTLES

BREED	SERUM PROTEIN	AGE
JERSEY	6.4	5 DAYS
JERSEY	6	4 DAYS
JERSEY	7.2	3 DAYS
JERSEY	5.2*	2 DAYS
JERSEY	6	4 DAYS
JERSEY	7	5 DAYS

* DID NOT RECEIVE COLOSTRUM UNTIL 18 HOURS

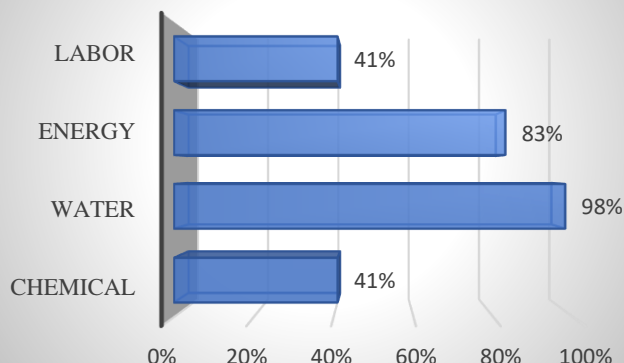
DAIRY KEEP II WITH DAILY MILK
2.0% CONCENTRATION
76 ML PER GALLON
FED IN COLOSTRUM AND EVERY FEEDING AFTER
WEIGHTS ARE TAPED

	TREATMENT GROUP			CONTROL	
	JERSEY	BR. SW	BR. SW	HOLST	HOLST
TAPE IN.	32.5	33.5	31.5	33	30.5
BIRTH WT.	109	118	100	115	94
60-DAY IN.	41.5	41	40.5	41.5	40.5
60-DAY WT.	235	224	218	238	218
AV. DAY GAIN	2.1	1.8	2	1.8	1.8

DK-II-CR Program Benefits:

- Improved sanitation of feed equipment
- Improved sanitation of environment
- Improved colostrum quality
- Improved milk quality
- Improved water quality
- One product for all applications
- Eliminates hazardous chemicals
- Reduces equipment wear
- Reduces program cost
- Safe for employees and animals
- Environmentally friendly

DK-II-CR Calf Sanitation Program Cost Reduction Analysis



Applications	Description/Action	DK-II-CR oz/gals
Colostrum	Reduces harmful bacteria and preserves.	1.0
Raw Hospital Milk	Reduces harmful bacteria and preserves.	0.67
After pasteurization & powdered Milk	Reduces harmful bacteria and preserves	0.25
Washing & Rinsing Feeding Equipment	Soak bottles, wash buckets and final rinse feeding equipment	1.0
Birth Pen/Pens/Barn/Hutch Spray	Spray pens and hutches	3
Water Pail (Feed Water)	Add to feed water. It will preserve the water	0.25

Packages – 5-gallon pail, 15-gallon drum, 55-gallon drum & 275-gallon tote

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