

# TEAT DIP SUMMARY

## 1% Iodine Post Dips

|                 | Film Forming Barrier | Low Drip | Water Repelling | Germicide Reactivation | Extra Thick Viscosity | Emollient Level |
|-----------------|----------------------|----------|-----------------|------------------------|-----------------------|-----------------|
| Bovi-Kote®      | X                    | X        | X               | X                      |                       | 10%             |
| Bovi-Sure™      |                      | X        |                 |                        | X                     | 15%             |
| BoviSoft®       |                      |          |                 |                        |                       | 12%             |
| Udderdine™ Apex |                      | X        |                 |                        |                       | 10%             |
| Udderdine™ 110  |                      |          |                 |                        |                       | 10%             |

## Germicide Comparison

| Germicide                        | Relative Price |                 |  |
|----------------------------------|----------------|-----------------|--|
| Iodine                           | \$\$\$\$       | <b>STRENGTH</b> | Iodine offers a broad spectrum kill for Mastitis-causing organisms as well as fungi, viruses, bacteria, spores and mycoplasma.   |
|                                  |                | <b>WEAKNESS</b> | Iodine can irritate the teat. Detergents are added to iodine as complexing agents and these detergents can remove the natural oils that protect the test. These natural oils must be replaced in the form of other conditioners and emollients.                        |
|                                  |                | <b>ACTION</b>   | Oxidizing action burns holes in the cell wall of bacteria and the cell explodes.   |
|                                  |                | <b>SUMMARY</b>  | Can be irritating to the teat without a properly balanced skin conditioning package. Very effective against all Mastitis-causing organisms.  |
| Chlorhexidine                    | \$\$\$         | <b>STRENGTH</b> | Chlorhexidine is a non-irritating, fast acting germicide that adheres well to the skin and provides prolonged antimicrobial activity.  |
|                                  |                | <b>WEAKNESS</b> | While effective against most gram-positive and gram-negative bacteria, and some viruses, Chlorhexidine does not offer the same broad spectrum kill as Iodine.  |
|                                  |                | <b>ACTION</b>   | Causes cytoplasmic proteins to leave the cell and the cell explodes.   |
|                                  |                | <b>SUMMARY</b>  | Not as broad spectrum as Iodine, but adequate for most herds. Residual kill of up to twelve hours.   |
| Natural Fatty Acid (Lactic Acid) | \$\$\$         | <b>STRENGTH</b> | Natural Fatty Acids are part of the cows natural defense mechanisms against Mastitis-causing organisms.  |
|                                  |                | <b>WEAKNESS</b> | Not as broad spectrum in kill as Iodine but adequate for most conditions. Residual effects likely as natural defenses are bolstered.   |
|                                  |                | <b>ACTION</b>   | Disrupts the cell membrane by attacking various receptors, and the cell explodes.  |
|                                  |                | <b>SUMMARY</b>  | More natural kill agent and is gentle on the teat. Inhibit as well as kill bacteria. Fatty acids do not disrupt the teat's natural defenses as much as Iodine or Chlorhexidine, excellent dip for changing weather conditions and helping teats recover from chapping. |
| Hydrogen Peroxide                | \$             | <b>STRENGTH</b> | Hydrogen Peroxide is an oxidizing agent effective against most Mastitis-causing organisms. Excellent cleaning properties aid its effectiveness as a pre-dip.   |
|                                  |                | <b>WEAKNESS</b> | Not as broad spectrum in kill as Iodine but adequate for most conditions.  |
|                                  |                | <b>ACTION</b>   | Oxidizing action burns holes in the cell wall of bacteria and the cell explodes.   |
|                                  |                | <b>SUMMARY</b>  | Most effective when combined with natural acids as the combination forms Alpha-Hydroxy acids which helps remove dead skin. This, in turn, improves teat condition and lessens the opportunity for bacterial colonization of the skin.                                  |
| Chlorine Dioxide                 | \$\$\$\$       | <b>STRENGTH</b> | Effective against gram-positive and gram-negative bacteria, molds, viruses, yeasts and mycoplasma.   |
|                                  |                | <b>WEAKNESS</b> | Short shelf life for mixed products.   |
|                                  |                | <b>ACTION</b>   | Oxidizing action burns holes in the cell wall of bacteria and the cell explodes.   |
|                                  |                | <b>SUMMARY</b>  | Uses Lactic Acid as an activator, which has good skin conditioning properties.   |