MetaSmart

- Pelletable
- Liquid or Dry
- Unmatched Stability

References:


MetaSmart is a source of supplemental methionine, a required nutrient for dairy cow production, health, and reproduction.

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**Build Your Bottom Line**

- **22¢** +0.15% increase in milk protein
- **32¢** +0.15% increase in milk fat
- **32¢** + 2 lbs. of milk
- **< 10¢** Reformulation Cost
- **>75¢** Estimated increase per cow/day

*Calculated using the MilkPay© app at www.milkpay.com using 80 lbs of milk production, June 2018.

**Increase Transition Ease**

Supplemental methionine helps limit metabolic problems. This promotes peak milk, saves costs, and reduces early culling.

- Fewer Displaced Abomasums
- Lower Incidence of Ketosis
- Less Mastitis
- Reduced Metritis

**$85+** Savings per cow across entire herd

**Improve Repro Success**

More pregnancies maintained. Losses were reduced from 19% to 7% between pregnancy check #1 and #2.

**$85+** Savings per cow across entire herd

*Calculated using Adisseo MilkSmart© App

**Properly Balance for Amino Acids with MetaSmart.**

<table>
<thead>
<tr>
<th>Disease</th>
<th>Control</th>
<th>MetaSmart</th>
<th>Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displaced Abomasum</td>
<td>4</td>
<td>232</td>
<td>+98</td>
</tr>
<tr>
<td>Ketosis, Clinical</td>
<td>14</td>
<td>67</td>
<td>+53</td>
</tr>
<tr>
<td>Ketosis, Subclinical</td>
<td>40</td>
<td>224</td>
<td>+84</td>
</tr>
<tr>
<td>Mastitis</td>
<td>40</td>
<td>300</td>
<td>+20</td>
</tr>
</tbody>
</table>


**Common Transition Problems**

**Methionine Promotes Health**

<table>
<thead>
<tr>
<th>Disease</th>
<th>Control</th>
<th>Methionine</th>
<th>Decrease (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displaced Abomasum</td>
<td>7/162 (4.3%)</td>
<td>6/170 (3.5%)</td>
<td>18</td>
</tr>
<tr>
<td>Ketosis, Clinical &amp; Subclinical</td>
<td>29/162 (17.9%)</td>
<td>17/170 (10.0%)</td>
<td>44</td>
</tr>
<tr>
<td>Mastitis</td>
<td>23/138 (16.7%)</td>
<td>15/138 (10.9%)</td>
<td>35</td>
</tr>
<tr>
<td>Metritis</td>
<td>16/138 (11.6%)</td>
<td>9/137 (6.6%)</td>
<td>43</td>
</tr>
</tbody>
</table>

**Reduce pregnancy losses, days 28 to 61 after timed AI**

- Lower Average Days in Milk
- Less Re-breeding
- Less Culls

**$85+** Savings per cow across entire herd

*Calculated using Adisseo MilkSmart© App

**MetaSmart**: The Total Reward

- **$150+ per cow/year**
- **$300+ per cow/year**
- **$755+ per cow per year**

*Depending upon how milk is paid at the farm gate. Calculated using Adisseo MilkSmart© App, May 2018.

MetaSmart is brought to you by Adisseo, a global nutritional solutions provider.
Properly Balance for Amino Acids with MetaSmart.

<table>
<thead>
<tr>
<th>MetaSmart DIM 0-30</th>
<th>MetaSmart DIM 21-140</th>
<th>MetaSmart DIM 140-220</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milk Yield (lb)</strong></td>
<td><strong>Milk Fat (%)</strong></td>
<td><strong>Fat Yield (lb)</strong></td>
</tr>
<tr>
<td>Control</td>
<td>Metasmart</td>
<td>Improvement</td>
</tr>
<tr>
<td>78.7</td>
<td>84.0</td>
<td>+5.3 lb</td>
</tr>
<tr>
<td>4.27</td>
<td>4.68</td>
<td>+4.1%</td>
</tr>
<tr>
<td>3.62</td>
<td>4.06</td>
<td>+4.4 lb</td>
</tr>
<tr>
<td>3.04</td>
<td>3.26</td>
<td>+22%</td>
</tr>
<tr>
<td>2.45</td>
<td>2.71</td>
<td>+21 lb</td>
</tr>
</tbody>
</table>


* Cost/case adapted from Guard C, 2008; Melton et al., 1998; McArt et al., 2012

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MetaSmart**: The Total Reward

- **$150+ per cow/year**
- **$300+ per cow per year**
- **$395+ Health Benefits**
- **$595+ Repro Benefits**

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* Calculated using Adisseo MilkPay© App

Disease | Average Incidence (%) | Cost/Case/Year ($) |
--- | --- | --- |
Displaced Abomasum | 4/162 (4.3%) | 494 |
Ketosis, Clinical | 14/162 (7.9%) | 232 |
Ketosis, Subclinical | 40/162 (24.7%) | 67 |
Mastitis | 40/162 (24.7%) | 224 |
Metritis | 20/162 (12.3%) | 300 |


** Clinical and subclinical ketosis numbers are combined as per the supporting research.

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Reduce pregnancy losses, days 28 to 61 after timed AI

- **$85+ Savings per cow across entire herd**

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* Toledo et al., 2017.
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References:


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FEWER:
Health Disorders, Abortions

BETTER:
Reproduction

MORE:
Milk Volume, Milk Protein, Milk Fat

Pelletable ✓ Liquid or Dry ✓ Unmatched Stability