**ZUCKER RATS**

**STRAIN CODE: 185 (OBESE), 186 (LEAN)**

**Nomenclature**

- *Crl:ZUC-Leprfa*

**Origin**

The obese or fatty condition appeared spontaneously in the 13M strain maintained at the Laboratory of Comparative Pathology of Theodore and Lois Zucker in Stow, MA. Research colonies were established at many institutions from this nucleus colony. To Charles River in 1985 from a research colony maintained at a pharmaceutical company.

**Coat Color**

Four principal coat color variants:
1. predominantly brown
2. brown and white
3. predominantly black
4. black and white

**Research Application**

- Insulin resistance
- Glucose intolerance
- Metabolic syndrome
- Genetic obesity

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### Zucker Obese

<table>
<thead>
<tr>
<th>Age in Days*</th>
<th>MALE Obese Price</th>
<th>MALE Lean Price</th>
<th>FEMALE Obese Price</th>
<th>FEMALE Lean Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 28</td>
<td>338.05</td>
<td>86.20</td>
<td>325.50</td>
<td>83.00</td>
</tr>
<tr>
<td>29-35</td>
<td>353.40</td>
<td>89.65</td>
<td>340.30</td>
<td>86.30</td>
</tr>
<tr>
<td>36-42</td>
<td>370.10</td>
<td>93.25</td>
<td>356.35</td>
<td>89.85</td>
</tr>
<tr>
<td>43-49</td>
<td>389.20</td>
<td>105.55</td>
<td>374.75</td>
<td>101.60</td>
</tr>
<tr>
<td>50-56</td>
<td>417.90</td>
<td>116.20</td>
<td>402.35</td>
<td>111.85</td>
</tr>
<tr>
<td>57-63</td>
<td>441.30</td>
<td>126.95</td>
<td>424.85</td>
<td>122.25</td>
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<tr>
<td>64-70</td>
<td>463.60</td>
<td>132.40</td>
<td>446.50</td>
<td>127.50</td>
</tr>
<tr>
<td>71-77</td>
<td>485.05</td>
<td>137.75</td>
<td>467.15</td>
<td>132.55</td>
</tr>
<tr>
<td>78-84</td>
<td>498.00</td>
<td>143.55</td>
<td>479.55</td>
<td>138.20</td>
</tr>
<tr>
<td>85-91</td>
<td>512.85</td>
<td>151.90</td>
<td>493.85</td>
<td>146.30</td>
</tr>
</tbody>
</table>

Retired breeders: –

* Estimated age

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### Zucker Lean

**MEAN WEIGHT +/- 2 STANDARD DEVIATIONS**

- **MALE**
- **FEMALE**

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**DISEASE/TRANSLATIONAL MODELS**

www.criver.com