<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Effect of Justicia gendarussa Burm.f. Leaves Water Fraction On Male Rabbit Liver and Renal Fuction(Sub acute Toxicity Test of Justicia gendarussa Burm.f. Leaves Water Fraction as Male Contraceptive Agent)</td>
<td>79 - 82</td>
</tr>
<tr>
<td>2</td>
<td>Isolation and Identification of Staphylococcus aureus Isolates From Milk of Bovine Mastitis</td>
<td>83 - 86</td>
</tr>
<tr>
<td>3</td>
<td>The Comparison between Protein A Expression of Staphylococcus aureus and Coagulase Negative Staphylococci (CNS) from Bovine Mastitis milk</td>
<td>87 - 92</td>
</tr>
<tr>
<td>4</td>
<td>Histopatology And Proliferation Activity Of Gland Mammae After Gift Curcuma zedoaria Extract Which DMBA (Dimethylbenz(a)antrasen) Initiation on Sprague dawley Rat</td>
<td>93 - 98</td>
</tr>
<tr>
<td>5</td>
<td>Lactoferrin Effect On Symptom and Body Weight In Short Bowel Syndrome</td>
<td>99 - 102</td>
</tr>
<tr>
<td>6</td>
<td>The Histopathology Description of White Rat (Rattus norvegicus) Intestine That Was Given Juice of Noni (Morinda citrifolia) And High Fatty Diet</td>
<td>103 - 108</td>
</tr>
<tr>
<td>7</td>
<td>Toxoplasma gondii Congenital Dissemination Number on Infected Pregnant Mice by Local Isolate on Difference Gestation Olds</td>
<td>109 - 112</td>
</tr>
<tr>
<td>8</td>
<td>Reactivity Of Brucella abortus Strain 19 Outer Membrane Protein Toward Polyclonal Antibody Anti Brucella abortus Strain 19</td>
<td>113 - 118</td>
</tr>
<tr>
<td>9</td>
<td>The Potency of Sex Pheromone (Z)-9-Tricosene Female Housefly to Control Musca domestica</td>
<td>119 - 126</td>
</tr>
<tr>
<td>10</td>
<td>The Increasing of Rice Straw Quality by Addition Cellulolityc Bacteria Produce Microbe of Rumen</td>
<td>127 - 130</td>
</tr>
<tr>
<td>11</td>
<td>The Isolation And Identification Of Prolactine Protein Of The Duckâ€™s Serum In Mouling Phase With Sas 50% And Sds Page 12% Methode</td>
<td>131 - 136</td>
</tr>
<tr>
<td>12</td>
<td>Succesfull of Artifical Insemination Using Frozen Semen Carried by Ice</td>
<td>137 - 142</td>
</tr>
<tr>
<td>13</td>
<td>The Usefull of Mahkota Dewa Fruit (Phaleria macrocarpa) Extract as a Hepatotoxicity Prevention to Mice Caused by Induction of Carbon Tetrachloride</td>
<td>143 - 148</td>
</tr>
<tr>
<td>14</td>
<td>Yogurt Supplementation Study Of Rat (Rattus norvegicus) That Exposured By Formaldehdyde Through Feeding Diet On Antioxidant Activity, Oxidative Damages Of Hepar Tissue</td>
<td>149 - 155</td>
</tr>
</tbody>
</table>
Effect of Justicia gendarussa Burm.f. Leaves Water Fraction On Male Rabbit Liver and Renal Function (Sub acute Toxicity Test of Justicia gendarussa Burm.f. Leaves Water Fraction as Male Contraceptive Agent)

Efek Fase Air Daun Gandarusa (Justicia gendarussa Burm.f.) pada Fungsi Hati dan Fungsi Ginjal Kelinci Jantan (Uji Toksisitas Fase Air Daun Gandarusa Sebagai Bahan Kontrasepsi Pria)

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Abstract

Justicia gendarussa Burm. f. leaves was found to be traditionally used as male contraceptive agent by several ethnic groups in central part of Papua, Indonesia. Previous study showed that J. gendarussa could inhibit mice spermatozoa penetration onto mice ovum. It was found that J. gendarussa could be developed as contraceptive medicine. Hence, it is necessary to conduct research on its toxicity. One of the premedical researches which have carried on this research was subacute toxicity test. The aim of this research was to observe the influence of water fraction of J. gendarussa leaves on rabbit’s liver and kidney functions. The parameters used on this research were SGOT, SGPT, Alkaline phosphatase, Blood Urea Level, and creatinine level. Research was carried out by administrating the treatment groups with oral preparation of of J. gendarussa leaves water fraction once daily for 45 days (1.5 times of rabbit spermatogenesis cycle). The doses of J. gendarussa water fraction for each treatment groups were 579.48; 482.90 and 340.87 mg/kg BW. Rabbit serum samples were collected and measured by Automatic Hitachi Analyzer 902. Data then were analyzed by paired t test. Result showed that J. gendarussa leaves in the three doses did not influence rabbit’s liver and kidney functions.

Keyword : Justicia, gendarussa, Burm., f., Sub, acute, toxicity, test, Liver, and, Renal, Function, Rabbit,

Daftar Pustaka :