



# MEDICINES WITH ANIMAL ORIGIN

## 2025

# MEDICINES WITH ANIMAL ORIGIN



UNIVERSITI KEBANGSAAN MALAYSIA  
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## PREFACE

It is with great pleasure that I present the publication of *Medicines of Animal Origin*, a reference developed by the Pharmacy Department of Hospital Canselor Tuanku Muhriz (HCTM). This initiative reflects our continuous commitment to advancing safe, ethical, and culturally sensitive pharmaceutical practice within our healthcare setting.

The use of animal-derived substances in the manufacturing of medicines has long been an integral part of pharmaceutical science. However, in recent years, there has been a growing awareness among patients and healthcare professionals regarding the ethical, cultural, and religious implications of these ingredients. This guideline has therefore been developed to provide doctors and pharmacists with reliable information to support informed decision-making, ensuring that patients' values, beliefs, and preferences are respected in the delivery of care.

This publication serves as a comprehensive reference for healthcare practitioners involved in the medication management process. It highlights important considerations related to the origin of drugs and excipients, assisting clinicians in identifying and communicating potential concerns to their patients. It also reinforces the principle that patient-centred care extends beyond clinical efficacy and safety, encompassing respect for individual cultural and ethical perspectives.

I would like to commend the editorial and working committee for their dedication, diligence, and collaborative effort in compiling this guideline. Their commitment to accuracy and quality has ensured that this publication will serve as a valuable resource for healthcare professionals across various disciplines.

It is my sincere hope that this document will promote greater understanding and awareness among clinicians and pharmacists, and ultimately contribute to the delivery of holistic, compassionate, and respectful patient care in line with the values of Hospital Canselor Tuanku Muhriz.



**Michelle Tan Hwee Pheng**  
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## **1. PURPOSE**

This guideline provides information to support clinicians in assisting patients who wish to avoid animal-derived products, enabling them to make informed decisions about their treatment and care.

## **2. SCOPE**

People with food allergies or intolerances, or those who wish to avoid animal products for religious, cultural or secular reasons, may want to know the origin or source of the drugs and excipients contained within their medicines, to enable them to make fully informed decisions about their treatment. This document provides information to assist doctors in supporting patients in making such choices. Information on herbal and complementary medicines is not included in this document.

## **3. BACKGROUND**

Many drugs or medicines in the market are derived from animal origin either as an active ingredient or as a part of excipients. The use of animals primarily the tissue or bone of cattle, Chinese hamster and pig to produce drugs has been a concern to patients with religious and cultural restrictions especially in multiracial countries like Malaysia as well as increasing number of vegans.

Common animal-derived excipients found in medications are gelatin made from bone of cattle or pigs to produce capsule shells or as coating agent, lactose from cattle milk as diluent for tablets, lanolin from sheep skin or wool as lubricant, and carmine from crushed insects as coloring agent<sup>1</sup>.

Islam encourages halal pharmaceuticals that includes halal source of gelatin, emulsifiers, stabilizers and additives. However, not only Islam but religions such as Judaism and Hinduism allow medicines derived from pigs or beef if there are no suitable alternative medicines or in life-saving situation. Patients with certain types of allergy to certain animal products may benefit from this booklet as it provides information on the source of medicine.

Patient must be properly counselled on the presence of animal traces in their medication and a consent form must be signed in front of the healthcare provider after they achieved mutual agreement on the treatment planned for the patient. The consent form is kept inside the patient's file for documentation.

#### 4. RELIGIOUS RESTRICTIONS

**Table 1** summarizes restrictions of certain religions or faiths <sup>2,3,4,5</sup>

Religion	Restrictions
Buddhism	No specific dietary restrictions, and practices vary depending on the country of origin. For some vegetarian followers, all animal products are prohibited. Buddhism encourages vegetarian diet due to the principle of nonviolence and the avoidance of suffering.
Hinduism	Most avoid eating beef, as cow is considered sacred. Many follow a vegetarian diet that excludes all animal products, including eggs. Those who are not vegetarian generally avoid beef and pork, and some may also refrain from consuming onion or garlic.
Islam	Only halal-certified* beef, lamb, poultry and fish are permitted. Pork and its by-products, as well as any meat not slaughtered according to halal requirements are prohibited. Products containing alcohol are also prohibited, and the use of gelatin can be contentious.
Sikhism	Many are vegetarian, some will exclude eggs from their meals. For non-vegetarians, restrictions include avoidance of beef and pork. All ritually slaughtered meat (e.g., halal, kosher) is prohibited. Products containing alcohol are prohibited.
Jehovah's witness	Abstain from blood products (e.g., blood transfusion or dishes made from blood, raw or rare meat). The decision regarding the use of fractions derived from the primary component is now accepted. It is considered a matter of conscience and is left to the individual.

Judaism	Only animals slaughtered and prepared according to the Jewish ritual (kosher) are permitted. Pork, camel, shellfish and fish without fins or scales are prohibited. Land animals must be mammals that chew their cud and have cloven hooves, while birds of prey are prohibited. Meat and dairy products cannot be consumed together.

\*Animals that have been killed according to Muslim law.

**Table 1: Dietary restrictions according to religions or faiths**

**5. RESOURCES**

The manufacturer’s Product Information (PI) gives details on the composition of a medicine, including both active and inactive ingredients, and may include a description of the manufacturing process (e.g., whether animal-derived materials were used). Consumer medicine information (CMI) leaflets are also available for most prescription medicines, allowing patients to review the ingredients. However, as these leaflets are typically available in English only, some patients may require additional assistance to understand them.

At present, there is no reliable or practical method to determine whether gelatin used in medicinal products is derived from bovine or porcine sources. This information is not always specified in the manufacturer’s PI or CMI but may be important for individuals who wish to avoid even trace amounts of these animal products.

If patients are concerned about whether a medicine or its excipients are of animal origin, they are encouraged to consult their pharmacist or doctor, who can verify the details from the medicine’s PI or CMI. For further clarification, patients may also seek guidance from their respective religious organisations.

## 6. APPENDICES

### 6.1 Appendix A – List of Animal Sources

	Bees
	Bovine
	Chicken
	Chimeric mouse
	Chinese hamster
	Egg yolk/egg lecithin
	Equine/horse
	Fish
	Insect
	Ovine
	Porcine
	Rabbit
	Shellfish

## 6.2 Appendix B – Injections

No	Generic Name & strength	Current Brand Available	Animal Source	Comment
1.	Adalimumab 40mg Pre-Filled Pen	Hyrimoz <sup>®</sup> , Novartis Pharmaceutical Manufacturing GmbH		Produced in Chinese Hamster Ovary (CHO) cells <sup>6</sup>
2.	Antivenin Cobra 10ml Inj.	Malayan Pit Viper Antivenin (Purified), Queen Saovabha		Main ingredient: purified equine immunoglobulin (horse) <sup>7</sup>
3.	Beractant Intratracheal Susp.	Survanta <sup>®</sup> , AbbVie		Contains bovine lung extract <sup>8</sup>
4.	Bevacizumab 100mg/4ml Inj.	Avastin <sup>®</sup> , F. Hoffman		Produced in CHO cells <sup>9</sup>
5.	Cetuximab 5mg/ml Solution for Infusion, 20ml	Erbix <sup>®</sup> , Merck Healthcare KGaA		Produced in a mammalian cell line (Sp2/0) <sup>10</sup>
6.	Denosumab 60mg/ml, 1ml Pre-Filled Syringe	Prolia <sup>®</sup> , Amgen Manufacturing Limited LLC		Produced in CHO cells <sup>11</sup>
7.	Enoxaparin Sodium 20mg Inj, 0.2ml	Inhixa, Shenzhen Techdow Pharmaceuticals Co., Ltd.		Porcine origin but no traces of porcine DNA found in the end product <sup>12</sup>
8.	Enoxaparin Sodium 40mg Inj, 0.4ml	Inhixa, Shenzhen Techdow Pharmaceuticals Co., Ltd.		Porcine origin but no traces of porcine DNA found in the end product <sup>13</sup>
9.	Enoxaparin Sodium 60mg Inj, 0.6ml	Inhixa, Shenzhen Techdow Pharmaceuticals Co., Ltd.		Porcine origin but no traces of porcine DNA found in the end product <sup>14</sup>
10.	Erythropoietin Alfa (H/R) 2,000IU/0.5ml Pre-Filled Syringe SC/IV	Epex <sup>®</sup> , Cilag AG		Produced in CHO cells <sup>15</sup>

11.	Erythropoietin Beta 2,000IU PFS 0.3ml Inj.	Recormon <sup>®</sup> , Vetter Pharma- Fertigung, GmbH & Co. KG		Produced by recombinant DNA technology in CHO cell line <sup>16</sup>
12.	Etanercept 50mg Inj.	Enbrel <sup>®</sup> , Pfizer		Produced by recombinant DNA technology in CHO cell line <sup>17</sup>
13.	Fat Emulsion 20% Containing Fish Oil, Olive Oil, Soybean Oil & MCT 500ml Inj.	SMOFIipid 20%, Fresenius Kabi	 	Main ingredient: each 100ml contains 1.2% egg yolk phospholipids, each 100ml contains 3g of fish oil <sup>18</sup>
14.	Fat Soluble Vitamin Inj, 10ml (Infant)	Vitalipid <sup>™</sup> N Infant, Fresenius Kabi		Main ingredient: Every 1ml contains 12mg of purified egg phospholipids <sup>19</sup>
15.	Fat Soluble Vitamin Inj, 10ml (Adult)	Vitalipid <sup>™</sup> N Adult, Fresenius Kabi		Main ingredient: Every 1ml contains 12mg of purified egg phospholipids <sup>20</sup>
16.	Heparin sodium 5000IU/ml Inj.	Unihepa, Duopharma		Derived from bovine mucosa <sup>21</sup>
17.	Human Prothrombin Complex, Freeze-Dried Powder and Solvent for Inj.	Octaplex <sup>®</sup> , Octapharma S.A.S		Excipients: porcine heparin <sup>22</sup>
18.	Idarucizumab 2.5g Inj. 50ml	Praxbind <sup>®</sup> , Boehringer Ingelheim		Produced by recombinant DNA technology in CHO cells <sup>23</sup>
19.	Inactivated Trivalent Viral Influenza Vaccine Inj. 0.5ml	InfluVac <sup>®</sup> , Abbott		Propagated in hen's egg <sup>24</sup>
20.	Infliximab 100mg Inj.	Remicade <sup>®</sup> , Cilag AG		Produced in murine hybridoma cells <sup>25</sup>
21.	Ixekizumab 80mg Solution for Inj. In Pre-Filled Pen	Taltz <sup>®</sup> , Eli Lilly		Produced in CHO cells <sup>26</sup>
22.	Live Attenuated Schwarz Measles, Mumps & Rubella Vaccine 0.5ml	Priorix <sup>™</sup> , GlaxoSmithKline (GSK)		Produced in chick embryo cell culture, may contain traces of egg protein <sup>27</sup>
23.	Methoxy Polyethylene Glycol - Epoetin Beta 50ug/0.3ml Inj.	Mircera <sup>®</sup> , Roche		Produced by recombinant DNA technology in CHO cell line <sup>28</sup>

24.	Methoxy Polyethylene Glycol - Epoetin Beta 75ug/0.3ml Inj.	Mircera <sup>®</sup> , Roche		Produced by recombinant DNA technology in CHO cell line <sup>29</sup>
25.	Modified Gelatin Solution 4% 500ml Inj.	Infusol <sup>®</sup> SG, Ain Medicare		Source of gelatin: Bovine <sup>30</sup>
26.	Neutral Isophane Susp. Of HM Insulin 100IU/ml, 3ml Inj	Insulatard <sup>®</sup> , Novo Nordisk Producao Farmaceutica		Contains protamine sulphate derived from salmon milt <sup>31</sup>
27.	Omalizumab 150mg Powder and Solvent For Inj.	Xolair <sup>®</sup> , Novartis Pharma Stein AG		Humanized monoclonal antibody manufactured from a mammalian cell line <sup>32</sup>
28.	Palivizumab 100mg/ml Solution for Inj.	Synagis <sup>®</sup> , Boehringer Ingelheim		Composed of 95% human and 5% murine amino acid sequences <sup>33</sup>
29.	Polatuzumab Vedotin 140mg Inj.	Polivy <sup>®</sup> , F. Hoffmann		Produced in CHO cells <sup>34</sup>
30.	Propofol MCT/LCT 1% Inj. 20ml Glass Ampoule/Vial	Propofol- <sup>®</sup> Lipuro, B. Braun Melsungen AG		Contains egg phospholipids <sup>35</sup>
31.	Protamine Sulphate 50mg/5ml Inj.	Prosulf <sup>®</sup> , Steriscience		Extracted from salmon milt <sup>36</sup>
32.	Rabbit Anti-human Thymocyte IG 5mg/ml Inj.	Thymoglobuline <sup>®</sup> , Sanofi Winthrop Industrie		Contains rabbit anti-human thymocyte immunoglobulin <sup>37</sup>
33.	Recombinant Coagulation Factor VIIa 50kiu (1.0mg) Inj.	NovoSeven <sup>®</sup> , Novo Nordisk		Produced by recombinant DNA technology in baby hamster kidney cells <sup>38</sup>
34.	Recombinant Human Somatropin 12mg Inj. Cartridge	Saizen <sup>®</sup> , Merck Serono S.p.A.		Produced by recombinant DNA technology in mammalian cells <sup>39</sup>
35.	Rituximab 100mg Inj.	MabThera <sup>®</sup> , F. Hoffman		Produced in CHO cells <sup>40</sup>
36.	Rituximab 500mg Inj.	MabThera <sup>®</sup> , F. Hoffman		Produced in CHO cells <sup>41</sup>
37.	Rituximab 1400mg Solution for Subcutaneous Inj.	MabThera <sup>®</sup> , F. Hoffman		Produced in CHO cells <sup>42</sup>

38.	Romosozumab 105mg/1.17ml Pre-Filled Inj.	Evenity®, Amgen Manufacturing Limited LLC		Produced in CHO cells <sup>43</sup>
39.	Tenecteplase 10,000iu (50mg) Inj.	Metalyse®, Boehringer Ingelheim		Produced by recombinant DNA technology in CHO cell line <sup>44</sup>
40.	Tisseel Frozen Solution 2ml (Fibrin Sealant)	Tisseel, Takeda Manufacturing Austria AG		Contains trace amount of heparin sodium derived from porcine <sup>45</sup>
41.	Trastuzumab 150mg Inj.	Herceptin®, Genentech Inc.		Contains murine anti-p185 HER2 antibody <sup>46</sup>
42.	Trastuzumab 440mg Inj.	Herzuma™, Celltrion Inc.		Contains murine anti-p185 HER2 antibody <sup>47</sup>

### 6.3 Appendix C – Capsules

No	Generic Name & strength	Brand Name, Manufacturer	Animal Source	Comment
1.	Acitretin 10mg Cap.	Neotigason®, Actavis		Source of capsule: Bovine <sup>48</sup>
2.	Acitretin 25mg Cap.	Neotigason®, Actavis		Source of capsule: Bovine <sup>49</sup>
3.	Alfacalcidol 0.25µg Cap.	Medi-Alpha 0.25®, Mega Lifesciences		Source of capsule: Bovine <sup>50</sup>
4.	Alfacalcidol 1µg Cap.	Medi-Alpha 1®, Mega Lifesciences		Source of capsule: Bovine <sup>51</sup>
5.	Alverine 60mg, Simethicone 300mg Cap.	MeteoSpasmyl®, Laboratoires Mayoly Spindler		Source of capsule: Bovine <sup>52</sup>
6.	Amoxicillin 250mg Cap.	Betamox, Duopharma		Source of capsule: Bovine <sup>53</sup>
7.	Anagrelide 920mg Cap.	Agrylin®, Patheon Manufacturing Services		Source of capsule: Bovine <sup>54</sup>

8.	Aprepitant 80mg (2's) + 125mg (1's) Cap. Tripack	Emend <sup>®</sup> , Alkermes Pharma		Source of capsule: Bovine <sup>55</sup>
9.	Calcitriol 0.25mcg Cap.	Osteocap, Mega lifesciences		Source of capsule: Bovine <sup>56</sup>
10.	Celecoxib 200mg Cap.	Celebrex <sup>®</sup> , Pfizer		Source of capsule: Bovine <sup>57</sup>
11.	Celecoxib 400mg Cap.	Celebrex <sup>®</sup> , Pfizer		Source of capsule: Bovine <sup>58</sup>
12.	Cephalexin Monohydrate 250mg Cap.	Pharmaniaga Cephalexin, Pharmaniaga Manufacturing		Source of capsule: Bovine <sup>59</sup>
13.	Ceritinib 150mg Cap.	Zykadia <sup>®</sup> , Novartis		Source of capsule: Bovine <sup>60</sup>
14.	Chondroitin Sulphate 400mg Cap.	Consulf <sup>®</sup> , AV Manufacturing		Source of capsule: Bovine <sup>61</sup>
15.	Ciclosporin 25mg Cap.	Sandimmun Neoral <sup>®</sup> , Catalent Germany		Source of capsule: Bovine <sup>62</sup>
16.	Ciclosporin 100mg Cap.	Sandimmun Neoral <sup>®</sup> , Catalent Germany		Source of capsule: Bovine <sup>63</sup>
17.	Clindamycin HCl 150mg Cap.	Lindacin, Taiwan Biotech		Source of capsule: Bovine <sup>64</sup>
18.	Cloxacillin 250mg Cap.	Cloxacilla, Inspirapharma		Source of capsule: Bovine <sup>65</sup>
19.	Crizotinib 250mg Cap.	Xalkori <sup>™</sup> , Pfizer		Source of capsule: Bovine <sup>66</sup>
20.	Dabigatran Etxilate 110 mg Cap.	Pradaxa <sup>®</sup> , Boehringer Ingelheim		Contains shellac <sup>67</sup>
21.	Dabigatran Etxilate 150 mg Cap.	Pradaxa <sup>®</sup> , Boehringer Ingelheim		Contains shellac <sup>68</sup>
22.	Danazol 100mg Cap.	Anargil <sup>®</sup> , Medochemie Ltd		Source of capsule: Bovine <sup>69</sup>

23.	Danazol 200mg Cap.	Anargil®, Medochemie Ltd		Source of capsule: Bovine <sup>70</sup>
24.	Diacerein 50mg Cap.	Artrodar®, TRB Chemedica		Source of capsule: Bovine <sup>71</sup>
25.	Diltiazem HCL 100mg SR Cap.	Herbesser® R100, Mitsubishi Tanabe Pharma		Source of capsule: Bovine <sup>72</sup>
26.	Diltiazem HCL 90mg SR Cap.	Herbesser® 90 SR, Mitsubishi Tanabe Pharma		Source of capsule: Bovine <sup>73</sup>
27.	Doxycycline 100mg Cap.	Pharmaniaga Doxycycline, Pharmaniaga Manufacturing		Source of capsule: Bovine <sup>74</sup>
28.	Duloxetine HCL 30mg Cap.	Cymbalta®, Lilly		Source of capsule: Bovine <sup>75</sup>
29.	Duloxetine HCL 60mg Cap.	Cymbalta®, Lilly		Source of capsule: Bovine <sup>76</sup>
30.	Dutasteride 0.5mg Cap.	Avodart®, Delpharm Poznan		Source of capsule: Bovine <sup>77</sup>
31.	Dutasteride 0.5mg + Tamsulosin 0.4mg Cap.	Duodart™, Catalent Germany		Source of capsule: Bovine <sup>78</sup>
32.	Esomeprazole 40 mg Gastro-resistant Cap.	Emanera®, KRKA		Source of capsule: Bovine <sup>79</sup>
33.	Fingolimod 0.5mg Cap.	Gilenya™, Novartis Pharma		Source of capsule: Bovine <sup>80</sup>
34.	Fluconazole 100mg Cap.	Pharmaniaga Fluconazole, Pharmaniaga Manufacturing		Source of capsule: Bovine <sup>81</sup>
35.	Fluconazole 50mg Cap.	Flucozole, Siam Bheasach Co.		Source of capsule: Bovine <sup>82</sup>
36.	Flunarizine HCl 5mg Cap.	Fludan, Biolab Company Ltd.		Source of capsule: Bovine <sup>83</sup>

37.	Fluoxetine 20mg Cap.	Fluovex, Delorbis Pharmaceuticals Ltd.		Source of capsule: Bovine <sup>84</sup>
38.	Gabapentin 300mg Cap.	Neuran, Hovid		Source of capsule: Bovine <sup>85</sup>
39.	Gemfibrozil 300mg Cap.	Pharmaniaga Gemfibrozil, Pharmaniaga Manufacturing		Source of capsule: Bovine <sup>86</sup>
40.	Glucosamine 250mg Sulphate + Chondroitin Sulphate 200mg Cap.	Conart®, AV Manufacturing	  	Source of capsule: Bovine <sup>87</sup> Glucosamine sulphate: Shellfish <sup>87</sup> Chondroitin sulphate: Bovine <sup>87</sup>
41.	Glucosamine Sulfate Sodium 250mg Cap.	AVM-Artrisa®, AV Manufacturing	 	Source of capsule: Bovine <sup>88</sup> Glucosamine sulphate: Shellfish <sup>88</sup>
42.	Glucosamine Sulphate Sodium 500mg Cap.	Viatri®-S, Rottapharm	 	Source of capsule: Bovine <sup>89</sup> Glucosamine sulphate: Shellfish <sup>89</sup>
43.	Hyaluronic Acid 45mg, Native Type II Collagen 10mg, Boswella Serrata Gum Extract 100mg Cap.	Mobithron® Advance, Yanling Natural Hygiene		Hyaluronic acid: Rooster comb extract <sup>90</sup> Type II Collagen: Chicken sternum <sup>90</sup>
44.	Hydroxyurea 500mg Cap.	DHNP Hydroxyurea, Daehan New Pharm		Source of capsule: Bovine <sup>91</sup>
45.	Isotretinoin 10mg Cap.	Acnotin 10, Mega Lifesciences		Source of capsule: Bovine <sup>92</sup>
46.	Isotretinoin 20mg Cap.	Acnotin 20, Mega Lifesciences		Source of capsule: Bovine <sup>93</sup>

47.	Itraconazole 100mg Cap.	Inox, Hovid Berhad		Source of capsule: Bovine <sup>94</sup>
48.	Lenalidomide 5mg Cap.	Linadex 5, Hetero Labs		Source of capsule: Bovine <sup>95</sup>
49.	Lenalidomide 15mg Cap.	Linadex 15, Hetero Labs		Source of capsule: Bovine <sup>96</sup>
50.	Lenalidomide 25mg Cap.	Linadex 25, Hetero Labs		Source of capsule: Bovine <sup>97</sup>
51.	Lenvatinib Mesilate 10 mg Hard Cap.	Lenvima <sup>®</sup> , Eisai Co.		Contains shellac <sup>98</sup>
52.	Lenvatinib Mesilate 4 mg Hard Cap.	Lenvima <sup>®</sup> , Eisai Co.		Contains shellac <sup>99</sup>
53.	Levodopa 100mg/Benserazide 25mg Cap.	Madopar <sup>®</sup> HBS 125, Delpharm Milano		Source of capsule: Bovine <sup>100</sup>
54.	Loperamide 2mg Cap.	Lomodium, Dynapharm		Source of capsule: Bovine <sup>101</sup>
55.	Mycophenolate Mofetil 250mg Cap.	Mycofit 250, Intas Pharmaceutical Ltd.		Source of capsule: Bovine <sup>102</sup>
56.	Nilotinib 150mg Cap.	Tasigna <sup>®</sup> , Novartis		Source of capsule: Bovine <sup>103</sup>
57.	Nilotinib 200mg Cap.	Tasigna <sup>®</sup> , Novartis		Source of capsule: Bovine <sup>104</sup>
58.	Nintedanib 150mg Cap.	Ofev <sup>®</sup> , Boehringer Ingelheim		Source of capsule: Porcine <sup>105</sup>
59.	Omeprazole 20mg Cap.	Omilock, SM Pharmaceuticals		Source of capsule: Bovine <sup>106</sup>
60.	Orlistat 120mg Cap.	Aslene <sup>™</sup> , Xepa Soul Pattinson		Source of capsule: Bovine <sup>107</sup>
61.	Oseltamivir 75mg Cap.	Osmivir, Royce Pharma  Natflu <sup>®</sup> -75, Natco Pharma Limited		Source of capsule: Bovine <sup>108,109</sup>

62.	Oxycodone Immediate Release 10mg Cap.	OxyNorm <sup>®</sup> , Bard Pharmaceutical Ltd.		Source of capsule: Bovine <sup>110</sup>
63.	Oxycodone Immediate Release 5mg Cap.	OxyNorm <sup>®</sup> , Bard Pharmaceutical Ltd.		Source of capsule: Bovine <sup>111</sup>
64.	Pancreatin 150mg Cap.	Creon <sup>®</sup> 10,000, Abbott	 	Source of capsule: Bovine <sup>112</sup> Active ingredient: Porcine <sup>112</sup>
65.	Phentermine 15mg Retard Cap.	Duromine <sup>™</sup> , Douglas Manufacturing Ltd.		Source of capsule: Bovine <sup>113</sup>
66.	Phentermine 30mg Retard Cap.	Duromine <sup>™</sup> , Douglas Manufacturing Ltd.		Source of capsule: Bovine <sup>114</sup>
67.	Phenytoin Sodium 100mg Cap.	Dilantin <sup>®</sup> , Pfizer Malaysia		Source of capsule: Bovine <sup>115</sup>
68.	Phenytoin Sodium 30mg Cap.	Dilantin <sup>®</sup> , Pfizer Malaysia		Source of capsule: Bovine <sup>116</sup>
69.	Piascledine 300mg Cap.	Piascledine <sup>®</sup> , Laboratoires Espanscience		Source of capsule: Bovine <sup>117</sup>
70.	Pirfenidone 267mg Cap.	Esbriet <sup>®</sup> , Roche Malaysia		Source of capsule: Bovine <sup>118</sup>
71.	Pregabalin 150mg Cap.	Novugab, Novugen Pharma		Source of capsule: Bovine <sup>119</sup>
72.	Pregabalin 75mg Cap.	Lyrica <sup>®</sup> , Pfizer		Source of capsule: Bovine <sup>120</sup>
73.	Progesterone 100mg Cap.	Utrogestan <sup>®</sup> , Besins Manufacturing		Source of capsule: Bovine <sup>121</sup>
74.	Rifampicin 300mg Cap.	Rifampicin, Royce Pharma Malaysia		Source of capsule: Bovine <sup>122</sup>
75.	Rifampicin 150mg Cap.	Rifampicin, Royce Pharma Malaysia		Source of capsule: Bovine <sup>123</sup>
76.	Rivastigmine Tartrate 1.5mg Cap.	Exelon <sup>®</sup> , Novartis Malaysia		Source of capsule: Bovine <sup>124</sup>

77.	Rivastigmine Tartrate 3mg Cap.	Exelon <sup>®</sup> , Novartis Malaysia		Source of capsule: Bovine <sup>125</sup>
78.	Sulodexide 250mg Cap.	Vessel Due F <sup>®</sup> , Alfasigma	 	Source of capsule: Bovine <sup>126</sup>  Active ingredient: Porcine <sup>126</sup>
79.	Tacrolimus 0.5mg Immediate Release Cap.	Prograf <sup>®</sup> , Astellas		Source of capsule: Bovine <sup>127</sup>
80.	Tacrolimus 1mg Immediate Release Cap.	Prograf <sup>®</sup> , Astellas		Source of capsule: Bovine <sup>128</sup>
81.	Tacrolimus 0.5mg Prolonged Release Cap.	Advagraf <sup>®</sup> , Astellas		Source of capsule: Bovine <sup>129</sup>
82.	Temozolomide 100mg Cap.	Temodal <sup>®</sup> , Orion Pharma		Source of capsule: Bovine <sup>130</sup>
83.	Tetracycline HCl 250mg Cap.	Dyna Tetracycline, Dynapharm		Source of capsule: Bovine <sup>131</sup>
84.	Thalidomide 50mg Cap.	Domide <sup>®</sup> , TTY Biopharm		Source of capsule and lactose: Bovine <sup>132</sup>
85.	Tramadol HCl 50mg Cap.	Pengesic, Hovid		Source of capsule: Bovine <sup>133</sup>
86.	Tranexamic Acid 250mg Cap.	Transamin <sup>®</sup> , CMIC CMO Co. Ltd.  Tren, Y.S.P. Industries		Source of capsule: Bovine <sup>134,135</sup>
87.	Tretinoin 10mg Cap.	Vesanoid <sup>®</sup> , Catalent Eberbach		Source of capsule: Bovine <sup>136</sup>
88.	Ursodeoxycholic Acid 250mg Cap.	Ursosan <sup>®</sup> , Pro. Med. CS	 	Source of capsule: Bovine <sup>137</sup>  Active ingredient: Chicken and duck <sup>137</sup>
89.	Venlafaxine HCl 150mg XR Cap.	Efexor <sup>®</sup> XR, Pfizer Ireland Pharmaceuticals		Source of capsule: Bovine <sup>138</sup>

90.	Venlafaxine HCl 75mg XR Cap.	Efexor® XR, Pfizer Ireland Pharmaceuticals		Source of capsule: Bovine <sup>139</sup>
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#### 6.4 Appendix D – Tablets

No	Generic Name & strength	Brand Name	Animal Source	Comment
1.	Amantadine Sulfate 100mg Tab.	PK-Merz®, Merz Pharma GmbH & Co. KGAA		Source of gelatin: Bovine <sup>140</sup>
2.	Amorphous Aescin 20mg Tab.	Reparil, Madays GmbH		Contains white beeswax <sup>141</sup>
3.	Ampicillin Sodium & Sulbactam Sodium 375mg Tab.	Unasyn®, Pfizer Malaysia		Excipient: Lactose hydrate (bovine milk) and magnesium stearate (tallow oil) <sup>142</sup>
4.	Asenapine 5mg Sublingual Tab.	Saphris®, Organon Malaysia		Excipient: freeze dried matrix of gelatin (bovine hide) <sup>143</sup>
5.	Asenapine 10mg Sublingual Tab.	Saphris®, Organon Malaysia		Excipient: freeze dried matrix of gelatin (bovine hide) <sup>144</sup>
6.	Bisacodyl 5mg Tab.	Novolax, Farmaceutsko-Hemijska Industrija, Serbia	 	Contains beeswax and shellac <sup>145</sup>
7.	Bumetanide 1mg Tab.	Burinex®, Allphamed Pharbil Arzeneimittel GmbH		Source of lactose: Bovine <sup>146</sup>
8.	Charcoal Activated 250mg Tab.	Dyna Charcoal, Dynapharm		Source of gelatin: Bovine <sup>147</sup>

9.	Clomiphene Citrate 50mg Tab.	Ova-mit, Remedica		Excipient: Magnesium stearate (tallow of Bovine and ovine) <sup>148</sup>
10.	Conjugated Oestrogen 0.3mg Tab.	Premarin®, Pfizer		Active ingredient: derived from pregnant mare's urine and bovine <sup>149</sup>
11.	Conjugated Oestrogen 0.625mg Tab.	Premarin®, Pfizer		Active ingredient: derived from pregnant mare's urine and bovine <sup>150</sup>
12.	Diazepam 5mg Tab.	Diazepam, Inspirapharma		Source of lactose: Bovine <sup>151</sup>
13.	Diazepam 10mg Tab.	Diazepam, Inspirapharma		Source of lactose: Bovine <sup>152</sup>
14.	Hydrocortisone 10mg Tab.	Hydrocortison Orion, Orion Finland		Excipient: Lactose hydrate (bovine) <sup>153</sup> Source of gelatin: Fish <sup>153</sup>
15.	Levothyroxine Sodium 25mcg Tab.	Euthyrox®, Merck		Active ingredient: contain fish gelatin <sup>154</sup>
16.	Levothyroxine Sodium 50mcg Tab.	Euthyrox®, Merck		Active ingredient: contain fish gelatin <sup>155</sup>
17.	Levothyroxine Sodium 100mcg Tab.	Euthyrox®, Merck		Active ingredient: contain fish gelatin <sup>156</sup>
18.	Mecobalamine 500UG Tab.	Methycobal®, Bushu Pharmaceuticals Ltd.		Contains shellac <sup>157</sup>
19.	Mefenamic Acid 250mg Tab.	Dyfenamic, Dynapharm		Source of gelatin: Bovine <sup>158</sup>
20.	Methylphenidate 10mg IR Tab.	Ritalin® 10, Siegfried Barbera		Excipient: Lactose (Bovine) <sup>159</sup>

				Source of gelatin: Bovine <sup>159</sup>
21.	Methylphenidate 18mg Extended Release Tab.	Concerta®, Janssen Cilag		Source of lactose monohydrate: Bovine <sup>160</sup>
22.	Methylphenidate 27mg Extended Release Tab.	Concerta®, Janssen Cilag		Source of lactose monohydrate: Bovine <sup>161</sup>
23.	Methylphenidate 36mg Extended Release Tab.	Concerta®, Janssen Cilag		Source of lactose monohydrate: Bovine <sup>162</sup>
24.	Metoclopramide HCL 10mg Tab.	Mexomide, Dynapharm		Source of gelatin: Bovine <sup>163</sup>
25.	Multivitamin Tab.	Dyna Wellen, Dynapharm		Source of gelatin: Bovine <sup>164</sup>
26.	Paliperidone 3mg Extended Release Tab.	Invega®, Janssen Cilag		Source of lactose monohydrate: Bovine <sup>165</sup>
27.	Prednisolone 1mg Tab.	Visolone, Y.S.P Industries		Source of lactose: Bovine <sup>166</sup>
28.	Ruxolitinib Phosphate 5mg Tab.	Jakavi®, Y.S.P Industries		Source of lactose: Bovine <sup>167</sup>
29.	Tamoxifen 20mg Tab.	Nolvadex-D, Astrazeneca		Source of lactose monohydrate and gelatin: Bovine <sup>168</sup>
30.	Ticlopidine 250mg Tab.	Dyna Ticlopidine, Dynapharm		Source of gelatin: Bovine <sup>169</sup>
31.	Topiramate 25mg Tab.	Topamax®, Cilag Ag		Source of lactose monohydrate: Bovine <sup>170</sup>

## 6.5 Appendix E – Others

No	Generic Name & strength	Brand Name	Animal Source	Comment
1.	Amino Acid, Glu & Fat Emulsion With Fish Oil 625ml Bag	Nutriflex® Omega Special, B. Braun		Excipient: contain egg lecithin <sup>171</sup>
2.	Glucose, Lipid Emulsion and Amino Acid Solution 1500ml	PERIOLIMEL N4E, Baxter.		Excipient: contain egg lecithin <sup>172</sup>
3.	Smofkabiven Central (Amino Acid, Glu & Fat Emulsion Plus Soya Bean Oil, Mct, Olive Oil & Fish Oil) 986ml	SmofKabiven® Central, Fresenius Kabi	 	Main ingredient: contain fish oil in its lipid emulsion <sup>173</sup> Excipient: contain egg lecithin <sup>173</sup>
4.	Smofkabiven Electrolyte Free Central (Amino Acids, Glu & Fat Emulsion Plus Soya Bean Oil, Mct, Olive & Fish Oil) 986ml	SmofKabiven® EF Central, Fresenius Kabi	 	Main ingredient: contain fish oil in its lipid emulsion <sup>174</sup> Excipient: contain egg lecithin <sup>174</sup>
5.	Smofkabiven Peripheral (Amino Acids, Glu & Fat Emulsion Plus Soya Bean Oil, Mct, Olive & Fish Oil) 1500ml	SmofKabiven® Peripheral, Fresenius Kabi	 	Main ingredient: contain fish oil in its lipid emulsion <sup>175</sup> Excipient: contain egg lecithin <sup>175</sup>

## 7. REFERENCES

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4. Pharmaceutical Services Programme, Ministry of Health Malaysia, 2017. Panduan Penggunaan Ubat-Ubatan yang Mengandungi Unsur Tidak Halal kepada Pesakit Muslim di Kementerian Kesihatan Malaysia.
5. Pharmaceutical Services Programme, Ministry of Health Malaysia, January 2018. Panduan Penggunaan Ubat-ubatan dari Perspektif Islam.
6. Product Leaflet: HYRIMOZ<sup>®</sup>, Adalimumab 40mg Pre-Filled Pen. Novartis Pharmaceutical Manufacturing GmbH.
7. Outer Packaging: MALAYAN PIT VIPER ANTIVENIN, Antivenin Cobra 10ml Inj. Queen Saovabha.
8. Outer Packaging: SURVANTA<sup>®</sup>, Beractant Intratracheal Susp. AbbVie.
9. Product Leaflet: AVASTIN<sup>®</sup>, Bevacizumab 100mg/4ml Inj.. F. Hoffman.
10. Product Leaflet: ERBITUX<sup>®</sup>, Cetuximab 5mg/ml Solution for Infusion, 20ml. Merck Healthcare KGaA.
11. Product Leaflet: PROLIA<sup>®</sup>, Denosumab 60mg/ml, 1ml Pre-Filled Syringe. Amgen Manufacturing Limited LLC.
12. Product Leaflet: INHIXA, Enoxaparin Sodium 20mg Inj, 0.2ml. Shenzhen Techdow Pharmaceuticals Co., Ltd..
13. Product Leaflet: INHIXA, Enoxaparin Sodium 40mg Inj, 0.4ml. Shenzhen Techdow Pharmaceuticals Co., Ltd..
14. Product Leaflet: INHIXA, Enoxaparin Sodium 60mg Inj, 0.6ml. Shenzhen Techdow Pharmaceuticals Co., Ltd..
15. Product Leaflet: EPREX<sup>®</sup>, Erythropoietin Alfa (H/R) 2,000IU/0.5ml Pre-Filled Syringe. Cilag AG.
16. Product Leaflet: RECORMON<sup>®</sup>, Erythropoietin Beta 2,000IU PFS 0.3ml Inj.. Vetter-Pharma-Fertigung, GmbH & Co. KG.
17. Product Leaflet: ENBREL<sup>®</sup>, Etanercept 50mg Inj. Pfizer.
18. Product Leaflet: SMOFLIPID 20%, Fat Emulsion 20% Containing Fish Oil, Olive Oil, Soybean Oil & Mct 500ml Inj. Fresenius Kabi.
19. Product Leaflet: VITALIPID<sup>™</sup> N INFANT, Fat Soluble Vitamin Inj, 10ml (Infant). Fresenius Kabi.
20. Product Leaflet: VITALIPID<sup>™</sup> N ADULT, Fat Soluble Vitamin Inj, 10ml (Adult). Fresenius Kabi.
21. Product Leaflet: UNIHEPA, Heparin Sodium 5000IU/MI Inj. Duopharma.
22. Outer Packaging: OCTAPLEX<sup>®</sup>, Human Prothrombin Complex, Freeze-Dried Powder and Solvent for Inj. Octapharma S.A.S.
23. Product Leaflet: PRAXBIND<sup>®</sup>, Idarucizumab 2.5g Inj. 50 ml. Boehringer Ingelheim.
24. Outer Packaging: INFLUVAC<sup>®</sup>, Inactivated Trivalent Viral Influenza Vaccine Inj. 0.5ml. Abbott.

25. Product Leaflet: REMICADE<sup>®</sup>, Infliximab 100mg Inj.. Cilag AG.
26. Product Leaflet: TALTZ<sup>®</sup>, Ixekizumab 80mg Solution for Inj. In Pre-Filled Pen. Eli Lilly.
27. Product leaflet: PRIORIX<sup>™</sup>, Live Attenuated Schwarz Measlers, Mumps & Rubella Vaccine 0.5ml. GlaxoSmithKline (GSK).
28. Product Leaflet: MIRCERA<sup>®</sup>, Methoxy Polyethylene Glycol - Epoetin Beta 50ug/0.3ml Inj. Roche.
29. Product Leaflet: MIRCERA<sup>®</sup>, Methoxy Polyethylene Glycol - Epoetin Beta 70ug/0.3ml Inj. Roche.
30. Outer Packaging: INFUSOL<sup>®</sup> SG, Modified Gelatin Solution 4% 500ml Inj.. Ain Medicare.
31. Product Leaflet: INSULATARD<sup>®</sup>, Neutral Isophane Susp. Of HM Insulin 100IU/ml, 3ml Inj.. Novo Nordisk Producao Farmaceutica.
32. Product Leaflet: XOLAIR<sup>®</sup>, Omalizumab 150mg Powder And Solvent For Inj. Novartis Pharma Stein AG.
33. Product Leaflet: SYNAGIS<sup>®</sup>, Palivizumab 100mg/ml Solution for Inj.. Boehringer Ingelheim.
34. Product Leaflet: POLIVY<sup>®</sup>, Polatuzumab Vedotin 140mg Inj.. F. Hoffmann.
35. Outer Packaging: PROPOFOL-<sup>®</sup>LIPURO, Propofol MCT/LCT 1% Inj. 20ml Glass Ampoule/Vial. B. Braun Melsungen AG.
36. Outer Packaging: PROSULF<sup>®</sup>, Protamine Sulphate 50mg/5ml Inj.. Steriscience.
37. Product Leaflet: THYMOGLOBULINE<sup>®</sup>, Rabbit Anti-human Thymocyte IG 5mg/ml Inj.. Sanofi Winthrop Industrie.
38. Product Leaflet: NOVOSEVEN<sup>®</sup>, Recombinant Coagulation Factor Viia 50kiu (1.0mg) Inj. Novo Nordisk.
39. Product Leaflet: SAIZEN<sup>®</sup>, Recombinant Human Somatropin 12mg Inj. Cartridge. Merck Serono S.p.A..
40. Product Leaflet: MABTHERA<sup>®</sup>, Rituximab 100mg Inj. F. Hoffman.
41. Product Leaflet: MABTHERA<sup>®</sup>, Rituximab 500mg Inj. F. Hoffman.
42. Product Leaflet: MABTHERA<sup>®</sup>, Rituximab 1400mg Solution for Subcutaneous Inj.. F. Hoffman.
43. Product Leaflet: EVENITY<sup>®</sup>, Romosozumab 105mg/1.17ml Pre-Filled Inj.. Amgen Manufacturing Limited LLC.
44. Product Leaflet: METALYSE<sup>®</sup>, Tenecteplase 10,000iu (50mg) Inj. Boehringer Ingelheim.
45. Outer Packaging: TISSEEL, Tisseel Frozen Solution 2ml (Fibrin Sealant). Takeda Manufacturing Austria AG.
46. Product Leaflet: HERCEPTIN<sup>®</sup>, Trastuzumab 150mg Inj.. Celltrion Inc..
47. Product Leaflet: HERZUMA<sup>™</sup>, Trastuzumab 440mg Inj.. Genentech Inc..
48. Outer Packaging: NEOTIGASON<sup>®</sup>, Acitretin 10mg Cap. Actavis.
49. Outer Packaging: NEOTIGASON<sup>®</sup>, Acitretin 25mg Cap. Actavis.
50. Outer Packaging: MEDI-ALPHA 0.25<sup>®</sup>, Alfacalcidol 0.25µg Cap. Mega Lifesciences.
51. Outer Packaging: MEDI-ALPHA 1<sup>®</sup>, Alfacalcidol 1µg Cap. Mega Lifesciences.
52. Product Leaflet: METEOSPASYL<sup>®</sup>, Alverine 60mg, Simethicone 300mg Cap. Laboratoires Mayoly Spindler.
53. Outer Packaging: BETAMOX, Amoxicillin 250mg Cap. Duopharma.
54. Outer Packaging: AGRYLIN<sup>®</sup>, Anagrelide 920mg Cap. Patheon Manufacturing Services.
55. Outer Packaging: EMEND<sup>®</sup>, Aprepitant 80mg (2's) + 125mg (1's) Cap. Tripack. Alkermes Pharma.
56. Outer Packaging: OSTEOCAP, Calcitriol 0.25mcg Cap. Mega Lifesciences.

57. Outer Packaging: CELEBREX<sup>®</sup>, Celecoxib 200mg Cap. Pfizer.
58. Outer Packaging: CELEBREX<sup>®</sup>, Celecoxib 400mg Cap. Pfizer.
59. Outer Packaging: PHARMANIAGA CEPHALEXIN, Cephalexin Monohydrate 250mg Cap. Pharmaniaga Manufacturing.
60. Outer Packaging: ZYKADIA<sup>®</sup>, Ceritinib 150mg Cap. Novartis Malaysia.
61. Product Leaflet: CONSULF<sup>®</sup>, Chondroitin Sulphate 400mg Cap. AV Manufacturing.
62. Outer Packaging: SANDIMMUN NEORAL<sup>®</sup>, Ciclosporin 25mg Cap. Catalent Germany.
63. Outer Packaging: SANDIMMUN NEORAL<sup>®</sup>, Ciclosporin 100mg Cap. Catalent Germany.
64. Outer Packaging: LINDACIN, Clindamycin Hcl 150mg Cap. Taiwan Biotech.
65. Outer Packaging: CLOXACILLA, Cloxacillin 250mg Cap. Inspirapharma.
66. Outer Packaging: XALKORI<sup>™</sup>, Crizotinib 250mg Cap. Pfizer.
67. Product Leaflet: PRADAXA<sup>®</sup>, Dabigatran Etexilate 110mg Cap. Boehringer Ingelheim.
68. Product Leaflet: PRADAXA<sup>®</sup>, Dabigatran Etexilate 150mg Cap. Boehringer Ingelheim.
69. Product Leaflet: ANARGIL<sup>®</sup>, Danazol 100mg Cap. Medochemie Ltd.
70. Product Leaflet: ANARGIL<sup>®</sup>, Danazol 200mg Cap. Medochemie Ltd.
71. Outer Packaging: ARTRODAR<sup>®</sup>, Diacerein 50mg Cap. TRB Chemedica.
72. Outer Packaging: HERBESSER<sup>®</sup> R100, Diltiazem HCL 100mg SR Cap. Mitsubishi Tanabe Pharma Malaysia.
73. Outer Packaging: HERBESSER<sup>®</sup> 90 SR, Diltiazem HCL 90mg SR Cap. Mitsubishi Tanabe Pharma Malaysia.
74. Product Leaflet: PHARMANIAGA DOXYCYCLINE, Doxycycline 100mg Cap. Pharmaniaga Manufacturing.
75. Outer Packaging: CYMBALTA<sup>®</sup>, Duloxetine HCl 30mg Cap. Lilly.
76. Outer Packaging: CYMBALTA<sup>®</sup>, Duloxetine HCl 60mg Cap. Lilly.
77. Outer Packaging: AVODART<sup>®</sup>, Dutasteride 0.5mg Cap. Delpharm Poznan.
78. Outer Packaging: DUODART<sup>™</sup>, Dutasteride 0.5mg + Tamsulosin 0.4mg Cap. Catalent Germany.
79. Outer Packaging: EMANERA<sup>®</sup>, Esomeprazole 40 mg Gastro-Resistant Cap. KRKA.
80. Outer Packaging: GILENYA<sup>™</sup>, Fingolimod 0.5mg Cap. Novartis Malaysia.
81. Outer Packaging: PHARMANIAGA FLUCONAZOLE, Fluconazole 100mg Cap. Pharmaniaga Manufacturing.
82. Outer Packaging: FLUCOZOLE, Fluconazole 50mg Cap. Siam Bheasach Co.
83. Outer Packaging: FLUDAN, Flunarizine HCl 5mg Cap. Biolab Company Ltd..
84. Outer Packaging: FLUOVEX, Fluoxetine 20mg Cap. Delorbis Pharmaceuticals Ltd..
85. Outer Packaging: NEURAN, Gabapentin 300mg Cap. Hovid.
86. Outer Packaging: PHARMANIAGA GEMFIBROZIL, Gemfibrozil 300mg Cap. Pharmaniaga Manufacturing.
87. Product Leaflet: CONART<sup>®</sup>, Glucosamine 250mg Sulphate + Chondroitin Sulphate 200mg Cap. AV Manufacturing.
88. Product Leaflet: AVM-ARTRISA<sup>®</sup>, Glucosamine Sulfate Sodium 250mg Cap. AV Manufacturing.
89. Product Leaflet: VIATRIL<sup>®</sup>-S, Glucosamine Sulphate Sodium 500mg Cap. Rottapharm.
90. Outer Packaging: MOBITHRON<sup>®</sup> ADVANCE, Hyaluronic Acid 45mg, Native Type II Collagen 10mg, Boswella Serrata Gum Extract 100mg Cap. Yanling Natural Hygiene.
91. Outer Packaging: DHNP HYDROXYUREA, Hydroxyurea 500mg Cap.. Daehan New Pharm.
92. Outer Packaging: ACNOTIN 10, Isotretinoin 10mg Cap. Mega Lifescience Public Company Limited.

93. Outer Packaging: ACNOTIN 20, Isotretinoin 20mg Cap. Mega Lifescience Public Company Limited.
94. Outer Packaging: INOX, Itraconazole 100mg Cap. Hovid.
95. Outer Packaging: LINADEX 5, Lenalidomide 5mg Cap. Hetero Labs Limited.
96. Outer Packaging: LINADEX 15, Lenalidomide 15mg Cap. Hetero Labs Limited.
97. Outer Packaging: LINADEX 25, Lenalidomide 25mg Cap. Hetero Labs Limited.
98. Outer Packaging: LENVIMA<sup>®</sup>, Lenvatinib Mesilate 10 mg Hard Cap. Eisai Co.
99. Outer Packaging: LENVIMA<sup>®</sup>, Lenvatinib Mesilate 4 mg Hard Cap. Eisai Co.
100. Outer Packaging: MADOPAR<sup>®</sup> HBS 125, Levodopa 100mg + Benserazide 25mg Cap. Delpharm Milano.
101. Product Leaflet: LOMODIUM, Loperamide 2mg Cap. Dynapharm.
102. Product Leaflet: MYCOFIT 250, Mycophenolate Mofetil 250mg Cap. Intas Pharmaceuticals Ltd.
103. Outer Packaging: TASIGNA<sup>®</sup>, Nilotinib 150mg Cap. Novartis.
104. Outer Packaging: TASIGNA<sup>®</sup>, Nilotinib 200mg Cap. Novartis.
105. Product Leaflet: OFEV<sup>®</sup>, Nintedanib 150mg Cap. Boehringer Ingelheim.
106. Product Leaflet: OMILOCK, Omeprazole 20mg Cap. SM Pharmaceuticals.
107. Product Leaflet: ASLENE<sup>™</sup>, Orlistat 120mg Cap. Xepa Soul Pattinson.
108. Outer Packaging: OSMIVIR, Oseltamivir 75mg Cap. Royce Pharma.
109. Outer Packaging: NATFLU<sup>®</sup>-75. Oseltamivir 75 mg Cap. Natco Pharma Limited.
110. Product Leaflet: OXYNORM<sup>®</sup>, Oxycodone Immediate Release 10mg Cap. Bard Pharmaceuticals Limited.
111. Product Leaflet: OXYNORM<sup>®</sup>, Oxycodone Immediate Release 5mg Cap. Bard Pharmaceuticals Limited.
112. Product Leaflet: CREON<sup>®</sup> 10,000, Pancreatin 150mg Cap. Abbott.
113. Product Leaflet: DUROMINE<sup>™</sup>, Phentermine 15mg Retard Cap. Douglas Manufacturing Ltd.
114. Product Leaflet: DUROMINE<sup>™</sup>, Phentermine 30mg Retard Cap. Douglas Manufacturing Ltd.
115. Outer Packaging: DILANTIN<sup>®</sup>, Phenytoin Sodium 100mg Cap. Pfizer Malaysia.
116. Outer Packaging: DILANTIN<sup>®</sup>, Phenytoin Sodium 30mg Cap. Pfizer Malaysia.
117. Product Leaflet: PIASCLEDINE<sup>®</sup> 300mg Cap. Laboratoires Espanscience.
118. Product Leaflet: ESBRIET<sup>®</sup>, Pirfenidone 267mg Cap. Roche Malaysia.
119. Product Leaflet: NOVUGAB, Pregabalin 150mg Cap. Novugen Pharma.
120. Product Leaflet: LYRICA<sup>®</sup>, Pregabalin 75mg Cap. Pfizer.
121. Outer Packaging: UTROGESTAN<sup>®</sup>, Progesterone 100mg Cap. Besins Manufacturing.
122. Product Leaflet: RIFAMPICIN 300mg Cap. Royce Pharma Malaysia.
123. Product Leaflet: RIFAMPICIN 150mg Cap. Royce Pharma Malaysia.
124. Outer Packaging: EXELON<sup>®</sup>, Rivastigmine Tartrate 1.5mg Cap. Novartis Malaysia.
125. Outer Packaging: EXELON<sup>®</sup>, Rivastigmine Tartrate 3mg Cap. Novartis Malaysia.
126. Outer Packaging: VESSEL DUE F<sup>®</sup>, Sulodexide 250 mg Cap. AlfaSigma.
127. Outer Packaging: PROGRAF<sup>®</sup>, Tacrolimus 0.5mg Immediate Release Cap. Astellas.
128. Outer Packaging: PROGRAF<sup>®</sup>, Tacrolimus 1mg Immediate Release Cap. Astellas.
129. Outer Packaging: ADVAGRAF<sup>®</sup>, Tacrolimus 0.5mg Prolonged Release Cap. Astellas.
130. Outer Packaging: TEMODAL<sup>®</sup>, Temozolomide 100mg Cap. Orion Pharma.
131. Product Leaflet: DYNA TETRACYCLINE, Tetracycline HCl 250mg Cap. Dynapharm.
132. Outer Packaging: DOMIDE<sup>®</sup>, Thalidomide 50mg Cap. TTY Biopharm.

133. Product Leaflet: PENGESIC, Tramadol HCl 50mg Cap. Hovid.
134. Product Leaflet: TRANSAMIN<sup>®</sup>, Tranexamic Acid 250mg Cap. CMIC CMO Co. Ltd..
135. Outer Packaging: TREN, Tranexamic Acid 250mg Cap. Y.S.P. Industries.
136. Outer Packaging: VESANOID<sup>®</sup>, Tretinoin 10mg Cap. Catalent Eberbach.
137. Product Leaflet: URSOSAN<sup>®</sup>, Ursodeoxycholic Acid 250mg Cap. Pro. Med. CS.
138. Outer Packaging: EFEXOR<sup>®</sup>, Venlafaxine HCl 150mg XR Cap. Pfizer Ireland Pharmaceuticals.
139. Outer Packaging: EFEXOR<sup>®</sup>, Venlafaxine HCl 75mg XR Cap. Pfizer Ireland Pharmaceuticals.
140. Outer Packaging: PK-MERZ<sup>®</sup>, Amantadine sulfare 100mg Tab. Merz Pharma GmbH & Co. KGAA.
141. Product Leaflet: REPARIL, Amorphous Aescin 20mg Tab. Madays GmbH.
142. Product Leaflet: UNASYN<sup>®</sup>, Ampicillin Sodium & Sulbactam Sodium 375mg Tab. Pfizer Malaysia.
143. Product Leaflet: SAPHRIS<sup>®</sup>, Asenapine 5mg Sublingual Tab. Organon Malaysia.
144. Product Leaflet: SAPHRIS<sup>®</sup>, Asenapine 10mg Sublingual Tab. Organon Malaysia.
145. Product Leaflet: NOVOLAX, Bisacodyl 5mg Tab. Farmaceutsko-Hemijska Industrija, Serbia.
146. Outer Packaging: BURINEX<sup>®</sup>, Bumetanide 1mg Tab. Allphamed Pharbil Arzeneimittel GmbH.
147. Product Leaflet: DYNA CHARCOAL, Charcoal Activated 250 mg Tab. Dynapharm.
148. Outer Packaging: OVA-MIT, Clomiphene Citrate 50mg Tab. Remedica.
149. Product Leaflet: PREMARIN<sup>®</sup>, Conjugated Oestrogen 0.3mg Tab. Pfizer Malaysia.
150. Product Leaflet: PREMARIN<sup>®</sup>, Conjugated Oestrogen 0.625mg Tab. Pfizer Malaysia.
151. Outer Packaging: IDAMAN PHARMA DIAZEPAM, Diazepam 5mg Tab. Inspirapharma.
152. Outer Packaging: IDAMAN PHARMA DIAZEPAM, Diazepam 10mg Tab. Inspirapharma.
153. Product Leaflet: HYDROCORTISON ORION, Hydrocortisone 10mg Tab. Orion Finland.
154. Product Leaflet: EUTHYROX<sup>®</sup>, Levothyroxine Sodium 25mcg Tab. Merck.
155. Product Leaflet: EUTHYROX<sup>®</sup>, Levothyroxine Sodium 50mcg Tab. Merck.
156. Product Leaflet: EUTHYROX<sup>®</sup>, Levothyroxine Sodium 100mcg Tab. Merck.
157. Product Leaflet: METHYCOBAL<sup>®</sup>, Mecobalamine 500 UG Tab. Bushu Pharmaceuticals Ltd.
158. Outer Packaging: DYFENAMIC, Mefenamic Acid 250mg Tab. Dynapharm.
159. Outer Packaging: RITALIN<sup>®</sup> 10, Methylphenidate 10mg IR Tab. Siegfried Barbera.
160. Outer Packaging: CONCERTA<sup>®</sup>, Methylphenidate 18mg Extended Release Tab. Janssen Cilag.
161. Outer Packaging: CONCERTA<sup>®</sup>, Methylphenidate 27mg Extended Release Tab. Janssen Cilag.
162. Outer Packaging: CONCERTA<sup>®</sup>, Methylphenidate 36mg Extended Release Tab. Janssen Cilag.
163. Outer Packaging: MEXOMIDE, Metoclopramide HCl 10mg Tab., Dynapharm.
164. Outer Packaging: DYNA WELLSSEN, Multivitamin Tab. Dynapharm.
165. Outer Packaging: INVEGA<sup>®</sup>, Paliperidone 3mg Extended Release Tab. Janssen Cilag.
166. Outer Packaging: VISOLONE, Prednisolone 1mg Tab. Y.S.P. Industries.
167. Outer Packaging: JAKAVI<sup>®</sup>, Ruxolitinib Phosphate 5mg Tab. Y.S.P. Industries.
168. Outer Packaging: NOLVADEX-D, Tamoxifen 20mg Tab. Astrazeneca.

169. Outer Packaging: DYNA TICLOPIDINE, Ticlopidine 250mg Tab. Dynapharm.
170. Outer Packaging: TOPAMAX®, Topiramate 25mg Tab. Cilag Ag.
171. Product Leaflet: NUTRIFLEX® Omega Special, Amino Acid, Glucose & Fat Emulsion With Fish Oil 625ml Bag. B. Braun.
172. Product Leaflet: PERIOLIMEL N4E, Glucose, Lipid Emulsion and Amino Acid solution 1500ml. Baxter.
173. Product Leaflet: SMOFKABIVEN® Central, Amino Acid, Glucose & Fat Emulsion With Soya Bean Oil, MCT, Olive Oil & Fish Oil 986ml Bag. Fresenius Kabi.
174. Product Leaflet: SMOFKABIVEN® EF Central, Amino Acid, Glucose & Fat Emulsion With Soya Bean Oil, MCT, Olive Oil & Fish Oil 986ml Bag. Fresenius Kabi.
175. Product Leaflet: SMOFKABIVEN® Central, Amino Acid, Glucose & Fat Emulsion With Soya Bean Oil, MCT, Olive Oil & Fish Oil 1477ml Bag. Fresenius Kabi.

**8.0 Consent Form**  
**8.1 Consent Form in Malay**

HCTM/JKIK/FAR/B13

Tarikh Kuatkuasa: 28/07/2025



**JABATAN FARMASI**

**BORANG KEIZINAN UNTUK MENJALANI RAWATAN MENGGUNAKAN UBAT YANG MENGANDUNGI UNSUR HAIWAN**

BAHAGIAN A: MAKLUMAT PESAKIT			
NAMA PESAKIT	NO. KAD PENGENALAN	JABATAN/WAD/UNIT	
	NO. MRN	JANTINA	
		UMUR	
BAHAGIAN B: PENYATAAN KEIZINAN DARIPADA PESAKIT			
SAYA TELAH DIBERITAHU DOKTOR DAN SAYA FAHAM TENTANG PENGGUNAAN UBAT DAN RAWATAN YANG AKAN DIBERIKAN KEPADA SAYA SEPERTI BERIKUT:			SILA TANDAKAN (√)
1. Ubat digunakan untuk rawatan saya berasal dari unsur haiwan yang dinyatakan.			Ya <input type="checkbox"/> Tidak <input type="checkbox"/>
2. Ubat ini merupakan alternatif kepada rawatan saya.			Ya <input type="checkbox"/> Tidak <input type="checkbox"/>
3. Saya bertanggungjawab sepenuhnya terhadap segala risiko sepanjang penggunaan ubat ini dan rawatan yang akan dijalankan.			Ya <input type="checkbox"/> Tidak <input type="checkbox"/>
4. Saya telah diberi peluang untuk bertanya tentang penggunaan ubat tersebut dalam rawatan ini.			Ya <input type="checkbox"/> Tidak <input type="checkbox"/>
BAHAGIAN C: MAKLUMAT RAWATAN			
NAMA UBAT		UNSUR HAIWAN	
RISIKO/KESAN SAMPINGAN UBAT			
RISIKO JIKA TIDAK MENGAMBIL UBAT			
BAHAGIAN D: PENYATAAN DARIPADA PAKAR/PEGAWAI PERUBATAN*			
SAYA MERUPAKAN PAKAR/PEGAWAI PERUBATAN* YANG MERAWAT PESAKIT INI DAN SAYA TELAH MENERANGKAN KEPADA BELIAU/WARIS* PERKARA-PERKARA SEPERTI BERIKUT:			SILA TANDAKAN (√)
1. Ubat digunakan untuk rawatan saya berasal dari unsur haiwan iaitu: _____			Ya <input type="checkbox"/> Tidak <input type="checkbox"/>
2. Ubat ini merupakan alternatif kepada rawatan beliau.			Ya <input type="checkbox"/> Tidak <input type="checkbox"/>
3. Saya akan memastikan penggunaan ubat ini mengikut prosedur yang telah ditetapkan sepanjang rawatan dijalankan.			Ya <input type="checkbox"/> Tidak <input type="checkbox"/>
4. Saya telah menerangkan tentang risiko pengambilan ubat ini dan memberi peluang kepada beliau untuk bertanya tentang penggunaan ubat dalam rawatan ini.			Ya <input type="checkbox"/> Tidak <input type="checkbox"/>
BAHAGIAN E: PENGAKUAN PAKAR/PEGAWAI PERUBATAN*			
SAYA TELAH MENERANGKAN SEPENUHNYA KEPADA PESAKIT/WARIS* BERKENAAN KEGUNAAN SERTA RISIKO UBAT TERSEBUT SEPANJANG RAWATAN.			
NAMA DOKTOR	TANDATANGAN DAN COP RASMI	NO. KAD PENGENALAN	TARIKH
BAHAGIAN F: PERSETUJUAN PESAKIT/WARIS*			
SAYA FAHAM DAN BERSETUJU UNTUK MENGAMBIL UBAT DI ATAS SEPANJANG RAWATAN DIBERIKAN.			
NAMA PESAKIT/WARIS*	TANDATANGAN	NO. KAD PENGENALAN	TARIKH
BAHAGIAN G: DISAKSIKAN OLEH			
NAMA	TANDATANGAN	NO. KAD PENGENALAN	TARIKH
BAHAGIAN H: TANDATANGAN KETUA JABATAN			
TANDATANGAN DAN COP RASMI			TARIKH

## 8.2 Consent Form in English

HCTM/JKIK/FAR/B13

Date of Implementation: 28/07/2025



### PHARMACY DEPARTMENT CONSENT FORM FOR TREATMENT USING MEDICINE WITH ANIMAL ORIGIN

SECTION A: PATIENT INFORMATION			
PATIENT NAME	IDENTITY CARD NUMBER	DEPARTMENT/WARD/UNIT	
	MRN NO.	GENDER	AGE
SECTION B: PATIENT'S CONSENT STATEMENT			
I HAVE BEEN INFORMED BY THE DOCTOR AND UNDERSTAND THE USE OF THE MEDICATION AND TREATMENT THAT WILL BE GIVEN TO ME AS FOLLOWS:			PLEASE TICK (√)
1. The medication used for the treatment is derived from the animal origin as mentioned.			Yes <input type="checkbox"/> No <input type="checkbox"/>
2. The medication is an alternative to my treatment.			Yes <input type="checkbox"/> No <input type="checkbox"/>
3. I take full responsibility for all risks throughout the use of this medication and the treatment to be carried out.			Yes <input type="checkbox"/> No <input type="checkbox"/>
4. I have been given the opportunity to ask about the use of this medication in this treatment.			Yes <input type="checkbox"/> No <input type="checkbox"/>
SECTION C: TREATMENT INFORMATION			
NAME OF MEDICATION		ORIGIN OF ANIMAL	
RISK/SIDE EFFECT OF TAKING THE MEDICATION			
RISK OF NOT TAKING THE MEDICATION			
SECTION D: STATEMENT FROM SPECIALIST / MEDICAL OFFICER*			
I AM THE SPECIALIST / MEDICAL OFFICER* TREATING THIS PATIENT AND I HAVE EXPLAINED TO HIM/HER* OR THEIR NEXT OF KIN THE FOLLOWING:			PLEASE TICK (√)
1. The medication used for the treatment is derived from the animal origin which is _____			Yes <input type="checkbox"/> No <input type="checkbox"/>
2. The medication is an alternative to his/her* treatment.			Yes <input type="checkbox"/> No <input type="checkbox"/>
3. I will ensure that the use of this medication follows the established procedures throughout the treatment period.			Yes <input type="checkbox"/> No <input type="checkbox"/>
4. I have explained about their risk of taking this medication and given him/her* the opportunity to ask about the use of this medication in this treatment.			Yes <input type="checkbox"/> No <input type="checkbox"/>
SECTION E: ACKNOWLEDGEMENT BY SPECIALIST / MEDICAL OFFICER*			
I HAVE FULLY EXPLAINED TO THE PATIENT / NEXT OF KIN* THE USE AND RISKS OF THE MEDICATION THROUGHOUT THE COURSE OF TREATMENT.			
DOCTOR'S NAME	SIGNATURE AND OFFICIAL STAMP	IDENTITY CARD NUMBER	DATE
SECTION F: PATIENT / NEXT OF KIN* CONSENT			
I UNDERSTAND AND AGREE TO TAKE THE ABOVE MEDICATION THROUGHOUT THE COURSE OF TREATMENT.			
PATIENT / NEXT OF KIN NAME*	SIGNATURE	IDENTITY CARD NUMBER	DATE
SECTION G: WITNESSED BY			
NAME	SIGNATURE	IDENTITY CARD NUMBER	DATE
SECTION H: HEAD OF DEPARTMENT SIGNATURE			
SIGNATURE AND OFFICIAL STAMP			DATE

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