*Translated*

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**Transfer Agreement**

**Supplier:** National Scientific Institute of Experimental

and Clinical Veterinary Medicine, Dr. Denis Muzyka, Head of the Department of Avian Diseases. Address: Ukraine, Kharkov, st. Pushkinskaya, house 83, index 61023, dmuzyka77@gmail.com. Office phone: +38-057-707-20-18, fax: +38-057-704-10-90

**Recipient:** Friedrich Löffler National Institute for Animal Health. Address: Germany, Greifswald, Rims Island, Sudufer 10, index 17493. Recipient: prof. Cornelia Silaghi, Cornelia.Silaghi@fli.de, Director of the Institute of Infectology.

Refers individually or collectively to the words "Parties" or "Party"

We have agreed that the supplier transfers **samples of bat recipient ectoparasites**. The samples were obtained

on the territory of Ukraine as part of the joint activities of the National Scientific Center "Institute of Experimental and Clinical Veterinary Medicine" (Ukraine, Kharkiv), with the Bat Rehabilitation Center (Ukraine, Kharkiv) in 2020.

In addition, the supplier will provide 147 ectoparasite samples (in 0.2 ml flasks with 70% ethanol):

List of specimens with fleas.

| Sample | Species of bat | Type of parasite |
| --- | --- | --- |
| **FLEAS** | | |
| UKR 001 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 002 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 003 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 004 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 005 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 006 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 007 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 008 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 009 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 010 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 011 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 012 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 013 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 014 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 015 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 016 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 017 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 018 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 019 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 020 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 021 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 022 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 023 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 024 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 025 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 026 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 027 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 028 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 029 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 030 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 031 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 032 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 033 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 034 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 035 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 036 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 037 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 038 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 039 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 040 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 041 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 042 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 043 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 044 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 045 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 046 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 047 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 048 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 049 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 050 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 051 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 052 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 053 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 054 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 055 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 056 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 057 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 058 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 059 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 060 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 061 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 062 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 063 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 064 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 065 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 066 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 067 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 068 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 069 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 070 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 071 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 072 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 073 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 074 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 075 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 076 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 077 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 078 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 079 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 080 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 081 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 082 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 083 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 084 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 085 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 086 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 087 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 088 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 089 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 090 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 091 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 092 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 093 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 094 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 095 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 096 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 097 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 098 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 099 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |
| UKR 100 NNOC N. CF. Eusarc | *Nyctalus noctula* | *Nycteridopsylla cf. Eusarca* |

List of samples of ticks.

|  |  |  |
| --- | --- | --- |
| Sample ID | Bat species | Parasite species |
| **ARGOS** | | |
| UKR01 PPYG A. vesp. | *Pipistrellus pygmaeus* | *Argas vespertilionis* |
| UKR02 PPYG A. vesp. | *Pipistrellus pygmaeus* | *Argas vespertilionis* |
| UKR03 PPYG A. vesp. | *Pipistrellus pygmaeus* | *Argas vespertilionis* |
| UKR04 PPYG A. vesp. | *Pipistrellus pygmaeus* | *Argas vespertilionis* |
| UKR05 PPYG A. vesp. | *Pipistrellus pygmaeus* | *Argas vespertilionis* |
| UKR06 PPYG A. vesp. | *Pipistrellus pygmaeus* | *Argas vespertilionis* |
| UKR07 PPYG A. vesp. | *Pipistrellus pygmaeus* | *Argas vespertilionis* |
| UKR08 PPYG A. vesp. | *Pipistrellus pygmaeus* | *Argas vespertilionis* |
| UKR09 PPYG A. vesp. | *Pipistrellus pygmaeus* | *Argas vespertilionis* |
| UKR10 PPYG A. vesp. | *Pipistrellus pygmaeus* | *Argas vespertilionis* |
| UKR 11 PPYG A. vesp. | *Pipistrellus pygmaeus* | *Argas vespertilionis* |
| UKR 12 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 13 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 14 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 15 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 16 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 17 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 18 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 19 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 20 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 21 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 22 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 23 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 24 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 25 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 26 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 27 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 28 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 29 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 30 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 31 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 32 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 33 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 34 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 35 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 36 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 37 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 38 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 40 MDAU A. vesp. | *Myotis daubentonii* | *Argas vespertilionis* |
| UKR 41 MDAU A. vesp. | *Myotis daubentonii* | *Argas vespertilionis* |
| UKR 43 PAUR A. vesp. | *Plecotus auritus* | *Argas vespertilionis* |
| UKR 44 MDAS A. vesp. | *Myotis dasycneme* | *Argas vespertilionis* |
| UKR 47 PKUH A. vesp. | *Pipistrellus kuhlii* | *Argas vespertilionis* |

This material is non-contagious and poses no threat to humans and animals

This material will be used by the Recipient only for the purpose of recognizing the following pathogens: rickettsia, Bartonella, anaplasma, viruses, protozoa and for genome sequencing. This material will not be used for commercial purposes, such as manufacturing or selling products or services that may require a commercial license. Recipient without fail, it will inform the Sender about the results of the study. This material is considered the property of the Sender. Recipient agrees to accept control of the material, and agrees not to transfer the material to other people unattended without obtaining the written approval of the Sender. The sender reserves the right to transfer the material to others and to use it for its own purposes. The material is transferred to the Recipient without warranty, including a guarantee of fitness for a particular use. Nothing from this transmission can mean transfer to Recipient or any other person of any right or license to the Material for any use other than as stated above.

The results of sequencing belong to the Recipient. The parties agree to give everyone the right to use the material and the results of research for scientific and educational purposes without the prior written permission of the other party. Any further use of material and research results not mentioned in this agreement, such as transfer to third parties and commercial use, may be allowed only with the consent of the Parties.

**Signature:**

**Sender:**

**Director of IEKVM,**

**Doctor of Medical Sciences (veterinarian), Academician of NASU**

**prof. Boris Stegniy**

**Head of the Department of Avian Diseases Dr. Denis Muzyka**

**Head of the Bat Rehabilitation Center Dr. Anton Vlaschenko,**

**Recipient:**

**Friedrich-Loffler Institute, Professor Thomas S. Mettenleiter**