Operational Guidelines for the Laboratory Animal

Hematological Analysis Service

- Article 1 The Operational Guidelines for the Laboratory Animal Hematological Analysis Servicewere established to maximize the utility and effectiveness of the device mentioned herein.
- Article 2 Details of the device are as follows:
 - 1. Brand and type: IDEXX Hematology Analyzer (ProCyte DxTM)
 - 2. Performance:
 - (1) Laser flow cytometry, optical fluorescence, and laminar flow impedance are integrated for analysis.
 - (2) The device features 24 hematological parameters, five-part white blood cell differential count, and absolute reticulocyte count.
 - (3) Analysis results of a sample can be obtained within 2 minutes.

Article 3 The device is located in the Laboratory Animal Center on the first floor of the Back Building of the United Medical Building.

Article 4 The main service targets of the device are researchers from Taipei Medical University and its three associated hospitals.

Article 5 Service items of this device consist of the following 24 hematological parameters:

| parameters. | | |
|----------------------|--------------------|---|
| Analytical item | Acronym | Full name |
| 血容比 | HCT | hematocrit |
| 紅血球 | RBC | Red Blood Cell |
| 血紅素 | HGB | hemoglobin |
| 網狀紅血球 | RETIC | Reticulocyte % and count |
| 紅血球平均體積 | MCV | Mean corpuscular volume |
| 網狀紅血球分佈寬度 | RDW | Red blood cell distribution width |
| 平均紅血球血紅蛋白濃度 | MCHC | mean corpuscular hemoglobin concentration |
| 平均紅血球血紅蛋白含量 | MCH | mean corpuscular hemoglobin |
| 血小板 | PLT | platelet |
| 平均血小板體積、分佈寬 度、容積比 | MPV 、 PDW 、 PCT | mean platelet volume, platelet distribution width, plateletcrit |
| 白血球 | WBC | White blood cell |
| 單核球(百分比和計數) | MONO | Monocyte % and count |

| 淋巴球(百分比和計數) | LYM | lymphocyte % and count |
|--------------|------|------------------------|
| 嗜中性球(百分比和計數) | NEU | Neutrophil % and count |
| 嗜酸性球(百分比和計數) | Eos | Eosinophil % and count |
| 嗜鹼性球(百分比和計數) | Baso | Basophil % and count |

Article 6 Reservation methods:

- 1. Please register use of the device in the reservation systems of the Core Facility Center or Laboratory Animal Center 1–10 days prior to the prescheduled service day. The Laboratory Animal Center technician provides services according to actual reservation situations.
- 2. Technical service time: Monday to Friday, 09:00 a.m. to 05:00 p.m.

Article 7 The guidelines for using the device are as follows:

- 1. Analysis reports of this service are provided in digital formats. Users should prepare a USB storage device to download reports.
- The hematology analyzer (ProCyte) uses whole blood samples for testing. The basic sample volume is 30 μL. The only acceptable sample type is that preserved using a lavender-top tube (K₃EDTA); samples treated using other anticoagulation methodswill be rejected to prevent causing damage to the device or testvalue deviations.
- 3. After the whole blood samples are collected in lavender-top tubes, they are stored at 4°C. Sample testing should be completed within 24 hours of collection. Users must manage the sampling and operation times appropriately to avoid compromising test values.
- Article 8 The charging standard of this device is determined to ensure optimal service quality and extend the effective service duration of the device.
 Upon resolution of aMeeting of the Office of Research and Development, individuals or units that use the device must pay for necessary consumables, maintenance, and operator services.
 - 1. Charging standard: NT\$350 per sample.
 - 2. Payment method: The Laboratory Animal Center calculates technical service uses and relevant fees every month and sends payment notices to users. Users must pay and verify the technical service fees within 3 months of the payment notice being issued. Users can visit the Cashier Section of Taipei Medical University to pay the fees, or have their expenditures charged from research project funds or school budgets.

Article 9 Device contact person:

Laboratory Animal Center technician: Wang, Chueh-Yi, extension: 7153 Article 10 These Guidelinesshall be implemented upon approval by an Office Meeting of the Office of Research and Development; the same procedure applies to any amendment.