

Materials List for:

# Laser Doppler: A Tool for Measuring Pancreatic Islet Microvascular Vasomotion *In Vivo*

Mingming Liu<sup>1</sup>, Xiaoyan Zhang<sup>1</sup>, Bingwei Li<sup>1</sup>, Bing Wang<sup>1</sup>, Qingbin Wu<sup>1</sup>, Fei Shang<sup>1</sup>, Ailing Li<sup>1</sup>, Hongwei Li<sup>1</sup>, Ruijuan Xiu<sup>1</sup>

<sup>1</sup>Institute of Microcirculation, Chinese Academy of Medical Sciences & Peking Union Medical College

Correspondence to: Ailing Li at [lialwork@imc.cams.cn](mailto:lialwork@imc.cams.cn)

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## Materials

| Name                           | Company                             | Catalog Number | Comments   |
|--------------------------------|-------------------------------------|----------------|--|
| MoorVMS-LDF2                   | Moor Instruments                    | GI80           | PeriFlux 5000 (Perimed Inc.) can be used as an alternative apparatus to harvest data |
| MoorVMS-PC Software            | Moor Instruments                    | GI80-1         | Software of MoorVMS-LDF2   |
| Calibration stand              | Moor Instruments                    | GI-cal         | Calibration tool   |
| Calibration base               | Moor Instruments                    | GI-cal         | Calibration tool   |
| Calibration flux standard      | Moor Instruments                    | GI-cal         | Calibration tool   |
| One Touch UltraEasy glucometer | Johnson and Johnson                 | #1955685       | Confirm hyperglycemia  |
| One Touch UltraEasy strips     | Johnson and Johnson                 | #1297006       | Confirm hyperglycemia  |
| Streptozotocin                 | Sigma-Aldrich                       | S0130          | Dissolve in sodium citrate buffer (pH 4.3)   |
| Pentobarbital sodium           | Sigma-Aldrich                       | P3761          | Working concentration 3 %  |
| Ethanol                        | Sinopharm Inc.                      | 200121         | Working concentration 75 %   |
| Sucrose                        | Amresco                             | 335            | Working concentration 10 %   |
| Medical gauze                  | China Health Materials Co.          | S-7112         | Surgical   |
| Blunt-nose forceps             | Shang Hai Surgical Instruments Inc. | N-551          | Surgical   |
| Surgical tapes                 | 3M Company                          | 3664CU         | Surgical   |
| Gauze sponge                   | Fu Kang Sen Medical Device CO.      | BB5447         | Surgical   |
| Scalpel                        | Yu Lin Surgical Instruments Inc.    | 175C           | Surgical   |
| Skin scissor                   | Carent                              | 255-17         | Surgical   |
| Suture                         | Ning Bo Surgical Instruments Inc.   | 3325-77        | Surgical   |
| Syringe and 25-G needle        | MISAWA Inc.                         | 3731-2011      | Scale: 1 ml  |