ملحق رقم 4 - المواصفات الفنية

LOT 1

I. **miRNeasy Serum/Plasma Kit (50)**
II. **miRCURY LNA SYBR Green PCR Kit (4000)**
III. **Human Panel 1, V6 miRCURY LNA miRNA miRNome PCR Panel**
IV. **miRCURY LNA RT Kit**
V. **Prestained Protein Ladder - Broad molecular weight (10 - 245 kDa)**
VI. **hsa-miR-21-5p miRCURY LNA miRNA PCR Assay**
VII. **hsa-miR-155-5p miRCURY LNA miRNA PCR Assay**
VIII. **hsa-miR-146a-5p miRCURY LNA miRNA PCR Assay**
IX. **hsa-miR-221-3p miRCURY LNA miRNA PCR Assay**
X. **hsa-miR-125b-5p miRCURY LNA miRNA PCR Assay**
XI. **hsa-miR-211-5p miRCURY LNA miRNA PCR Assay**
XII. **hsa-miR-34a-5p miRCURY LNA miRNA PCR Assay**
XIII. **hsa-miR-29b-3p miRCURY LNA miRNA PCR Assay**
XIV. **miRNeasy Serum/Plasma Advanced Kit**
XV. **miRNeasy kit FFPE**
XVI. **RNeasy FFPE Kit**
XVII. **miRNeasy Mini Kit**
XVIII. **miRNeasy Micro Kit**
XIX. **miRNeasy Tissue/Cells Advanced Mini Kit**
XX. **miRNeasy 96 Tissue/Cells Advanced Kit**
XXI. **miRCURY LNA Probe PCR Kit**

I. miRNeasy Serum/Plasma Kit (50)

For 50 total RNA preps: 50 RNeasy MinElute Spin Columns, Collection Tubes (1.5 ml and 2 ml), QIAzol Lysis Reagent, RNase-free Reagents and Buffers

The miRNeasy Serum/Plasma Kit is designed for purification of cell-free total RNA — primarily miRNA and other small RNA — from small volumes of serum and plasma. RNA from serum and plasma typically consists of molecules <100 nucleotides. Purification can be automated on the QIAcube Connect.

Features
- Internal control available for normalization
- Minimal elution volume
- High-purity RNA suitable for all downstream applications
- Easy, robust procedures
- Automatable protocol

Applications
The miRNeasy Serum/Plasma Kit allows purification of cell-free total RNA, including miRNA, for use in a variety of applications, including:
- Biomarker discovery
- miRNA profiling
- miRNA sequencing
- miRNA analysis
- Northern blot analysis
- Microarray analysis

II. miRCURY LNA SYBR Green PCR Kit (4000)

For 200 reactions: 2X miRCURY SYBR Green Master Mix, RNase-Free Water
The miRCURY LNA SYBR Green PCR Kit contains a high-performance PCR master mix specifically designed for use with the miRCURY LNA miRNA PCR System. The miRCURY SYBR Green PCR Kit also features a built-in control for visual identification of correct template addition, as well as Q-Bond, an additive in the PCR buffer that enables short cycling steps without loss of PCR sensitivity and efficiency. The kit has been optimized for use with any real-time cycler. ROX Reference Dye is provided in a separate tube and can be added if your cycler requires ROX as a passive reference dye.
Features
- Optimized for use with miRCURY LNA miRNA PCR Assays and Panels
- Sensitive and specific detection and quantification of miRNA
- Includes optional ROX dye for optional normalization of fluorescence

Applications:
- The miRCURY LNA SYBR Green PCR Kits are used as part of the miRCURY PCR System for:
- Mature miRNA quantification and profiling
- Mature miRNA and precursor miRNA detection in parallel
- snoRNA RNA detection

III. Human Panel 1, V6 miRCURY LNA miRNA miRNome PCR Panel

4 sets of one panel of 384 miRNA target assays plus controls in one 384-well plate (4 plates in total) 4
Plate Size: 384-well plate
Company: Bio-Rad
Model: CFX 384
Pack size: 4 plates

IV. miRCURY LNA RT Kit

For 8–64 cDNA synthesis reactions: 5x RT SYBR Green Reaction Buffer, 5x RT Probe Reaction Buffer, 10x RT Enzyme Mix, UniSp6, RNA Spike-in template, RNase-Free Water

V. Prestained Protein Ladder - Broad molecular weight (10 - 245 kDa)

Key product features:

Broad range: 10-245 kDa
Ready-to-use: Supplied in a loading buffer for direct loading on gels.
Easy to identify: Includes green ~25 kDa and red ~75kDa reference bands.
Sharp bands
Recommended loading: ~1.5 - 2.5µl

VI. hsa-miR-21-5p miRCURY LNA miRNA PCR Assay

Contains forward and reverse primers for 200 SYBR® Green-based, real-time qPCR reactions, 166 EvaGreen-based digital PCR reactions for Nanoplate 8.5k or 50 EvaGreen-based digital PCR reactions for Nanoplate 26k

VII. hsa-miR-155-5p miRCURY LNA miRNA PCR Assay
Contains forward and reverse primers for 200 SYBR® Green-based, real-time qPCR reactions, 166 EvaGreen-based digital PCR reactions for Nanoplate 8.5k or 50 EvaGreen-based digital PCR reactions for Nanoplate 26k
VIII. hsa-miR-146a-5p miRCURY LNA miRNA PCR Assay
Contains forward and reverse primers for 200 SYBR® Green-based, real-time qPCR reactions, 166 EvaGreen-based digital PCR reactions for Nanoplate 8.5k or 50 EvaGreen-based digital PCR reactions for Nanoplate 26k
IX. hsa-miR-221-3p miRCURY LNA miRNA PCR Assay
Contains forward and reverse primers for 200 SYBR® Green-based, real-time qPCR reactions, 166 EvaGreen-based digital PCR reactions for Nanoplate 8.5k or 50 EvaGreen-based digital PCR reactions for Nanoplate 26k
X. hsa-miR-125b-5p miRCURY LNA miRNA PCR Assay
Contains forward and reverse primers for 200 SYBR® Green-based, real-time qPCR reactions, 166 EvaGreen-based digital PCR reactions for Nanoplate 8.5k or 50 EvaGreen-based digital PCR reactions for Nanoplate 26k
XI. hsa-miR-211-5p miRCURY LNA miRNA PCR Assay
Contains forward and reverse primers for 200 SYBR® Green-based, real-time qPCR reactions, 166 EvaGreen-based digital PCR reactions for Nanoplate 8.5k or 50 EvaGreen-based digital PCR reactions for Nanoplate 26k
XII. hsa-miR-34a-5p miRCURY LNA miRNA PCR Assay
Contains forward and reverse primers for 200 SYBR® Green-based, real-time qPCR reactions, 166 EvaGreen-based digital PCR reactions for Nanoplate 8.5k or 50 EvaGreen-based digital PCR reactions for Nanoplate 26k
XIII. hsa-miR-29b-3p miRCURY LNA miRNA PCR Assay
Contains forward and reverse primers for 200 SYBR® Green-based, real-time qPCR reactions, 166 EvaGreen-based digital PCR reactions for Nanoplate 8.5k or 50 EvaGreen-based digital PCR reactions for Nanoplate 26k
XIV. miRNeasy Serum/Plasma Advanced Kit
The Kit enables the isolation of total RNA, including miRNA, from a minimum of 200 µl of sample."phenol-free, safer, and specifically designed to lyse EVs/exosomes for more comprehensive RNA recovery. The kit includes UCP columns that go through a rigorous ultraclean production process to ensure highly pure RNA eluates.
XV. miRNeasy kit FFPE
- The Kit enables purification of total RNA that includes RNA from approximately 18 nucleotides upwards from formalin-fixed, paraffin-embedded (FFPE) tissue sections. The kit provides recovery of usable RNA fragments, including miRNA and other small RNAs, for applications such as quantitative, real-time RT-PCR. -50 RNeasy MinElute Spin Columns, Collection Tubes, Proteinase K, RNase-Free DNase I, DNase Booster Buffer, RNase-Free Buffers, RNase-Free Water Elution volume 14 - 30 µl - Sample amount up to 4 sections, each with a thickness up to 10 µm and a surface area up to 250mm^2
XVI. RNeasy FFPE Kit
-The Kit is specially designed for purifying total RNA from formalin-fixed, paraffin-embedded tissue sections -50 RNeasy MinElute Spin Columns, Collection Tubes, Proteinase K, RNase-Free DNase I, DNase Booster Buffer, RNase-Free Buffers, RNase-Free Water -Elution volume 14 - 30 µl - Sample amount 1*5 µm to 4*10µm sections
XVII. miRNeasy Mini Kit
-miRNeasy Kits enable purification of total RNA including miRNA from all types of fresh/frozen animal tissues and cells, including difficult-to-lyse tissues and small tissue and cell samples. -For 50 preps: 50 RNeasy Mini Spin Columns, Collection Tubes (1.5 ml and 2 ml), QIAzol Lysis Reagent, RNase-Free Reagents and Buffers -Elution volume 30 µl - Sample amount 50 mg (100 mg for adipose) tissue, 1 x 10^7cells

XVIII. miRNeasy Micro Kit
- miRNeasy Kits enable purification of total RNA including miRNA from all types of fresh/frozen animal tissues and cells, including difficult-to-lyse tissues and small tissue and cell samples. Spin column (micro)optimized for small sample amounts, including low-input tissues/cells. -For 50 total RNA preps: 50 RNeasy MinElute Spin Columns, Collection Tubes (1.5 ml and 2 ml), QIAzol Lysis Reagent, RNase-Free Reagents and Buffers -Elution volume 10 µl -Sample amount 5 mg (10 mg for adipose) tissue, 1 x 10^6 cells
XIX. miRNeasy Tissue/Cells Advanced Mini Kit
-The kit recovers total RNA including miRNA from fresh/frozen tissues and cells. The miRNeasy Tissue/Cells Advanced Kits are phenol-free alternatives to classical miRNeasy Kits without compromising on RNA yields and quality - For 50 preps: RNeasy Mini Spin Columns, gDNA Eliminator Spin Columns, Collection Tubes, RNase-Free Water and Buffers -Elution volume 30 µl -Sample amount Up to 30 mg frozen tissue (15 mg stabilized) or up to 1 x 10^7 cells
XX. miRNeasy 96 Tissue/Cells Advanced Kit
- 96-well plate/High-throughput, plate-based option for batch processing. The miRNeasy Tissue/Cells Advanced Kits are phenol-free alternatives to classical miRNeasy Kits without compromising on RNA yields and quality - For 384 preps: RNeasy 96 plates, gDNA Eliminator 96 plates, S-Blocks, Proteinase K, RNase-Free Water and Buffers. -Elution volume 70-100 µl, min. 45 µl -Sample amount Up to 30 mg frozen tissue (15 mg stabilized) or up to 1 x 10^7 cells
XXI. miRCURY LNA Probe PCR Kit
For 200 reactions: 2X QuantiNova Probe Master Mix, 10X miRCURY Probe Univ. Primer, Rox Reference Dye, RNase-Free Water

Lot 2

I. **Bio-Plex Pro™ Human Treg Cytokine Panel, 12-Plex**

II. **Bio-Plex Pro™ RBM Apoptosis Panel 1 171WAR1CK**

III. **Bio-Plex Pro™ RBM Apoptosis Panel 2 #171WAR2CK**

IV. **Bio-Plex Pro™ Human Cytokine VEGF Set #171B5027M**

V. **Bio-Plex Pro Reagent Kit III with Flat Bottom Plate, 1 x 96-well**

VI. **Bio-Plex Pro Human Cytokine Screening Panel Standards, 96 assays**

VII. **Bio-Plex Pro Human Cytokine 17-plex Assay**

VIII. **Bio-Plex Pro Human Cytokine 8-plex Assay**

IX. **Bio-Plex® Validation Kit 4.0**

X. **Bio-Plex Calibration Kit 171203060**

XI. **Sheath Fluid**

XII. **Bio-Plex Pro Human Inflammation 1 11-plx XPL Panel**

I. Bio-Plex Pro™ Human Treg Cytokine Panel, 12-Plex

1 x 96-well, includes coupled magnetic capture beads, premixed detection antibodies, standards, quality controls, detection antibody diluent HB, standard diluent HB, sample diluent HB, assay buffer, wash buffer, streptavidin-PE, 96-well flat bottom plate, sealing tape, and instructions, for the detection of inflammation from 12 Treg cytokines family

IL-2 IL-10 IL-12 (p40) IL-12 (p70) IL-19
IL-20 IL-22 IL-26 IL-27 (p28) IL-28A / IFN-λ2
IL-29 / IFN-λ1 IL-35

II. Bio-Plex Pro™ RBM Apoptosis Panel 1 171WAR1CK

1 x 96-well, includes magnetic capture beads, detection antibodies, standards, controls, standard diluent, buffers, streptavidin-PE, flat bottom plate, plate seals, for the detection of 4 apoptosis markers in cell and tissue lysates

Use the Bio-Plex Pro RBM apoptosis panel 1 multiplex assay for detecting the intracellular proteins involved in the commitment, onset, and induction of apoptosis by the intrinsic pathway listed below:
Bak Bax Lamin B Smac

For use with the following sample types: Cell lysates, Tissue lysates

III. Bio-Plex Pro™ RBM Apoptosis Panel 2 #171WAR2CK

1 x 96-well, includes magnetic capture beads, detection antibodies, standards, controls, standard diluent, buffers, streptavidin-PE, flat bottom plate, plate seals, for the detection of 5 apoptosis markers in cell and tissue lysates

Use the Bio-Plex Pro RBM apoptosis panel 2 multiplex assay for detecting the intracellular proteins involved in the commitment, onset, and induction of apoptosis by the intrinsic pathway listed below:
Bad Bax/Bcl-2 dimer Bcl-xL Bim Mcl-1

For use with the following sample types: Cell lysates, Tissue lysates

IV. Bio-Plex Pro™ Human Cytokine VEGF Set #171B5027M
1 x 96-well, includes coupled magnetic beads and detection antibodies for detecting human VEGF, requires the below reagent kit (#171-304090M) and standards (#12007919)
V. Bio-Plex Pro Reagent Kit III with Flat Bottom Plate, 1 x 96-well
1 x 96-well, includes detection antibody diluent HB, standard diluent HB, sample diluent HB, assay buffer, wash buffer, streptavidin-PE, flat bottom plate, and sealing tape, for magnetic separation methods
VI. Bio-Plex Pro Human Cytokine Screening Panel Standards, 96 assays
Pkg of 1 vial, lyophilized cytokine standard for detecting 50 human cytokines, enough for 96 assays; for use with Human Cytokine Assays and Reagent Kit III (171-304090M)
VII. Bio-Plex Pro Human Cytokine 17-plex Assay
1 x 96-well, includes coupled magnetic capture beads, premixed detection antibodies, standards, quality control, detection antibody diluent HB, standard diluent HB, sample diluent HB, assay buffer, 10x wash buffer, streptavidin-PE, 96-well flat bottom plate, sealing tape, and instructions for the detection of 17 human cytokine biomarkers. G-CSF GM-CSF IFN-γ IL-1β IL-2 IL-4 IL-5 IL-6 IL-7 IL-8 IL-10 IL-12 (p70) IL-13 IL-17A MCP-1 (MCAF) MIP-1β TNF-α
VIII. Bio-Plex Pro Human Cytokine 8-plex Assay
1 x 96-well, includes coupled magnetic capture beads, premixed detection antibodies, standards, quality control, detection antibody diluent HB, standard diluent HB, sample diluent HB, assay buffer, 10x wash buffer, streptavidin-PE, 96-well flat bottom plate, sealing tape, and instructions for the detection of 8 human cytokine biomarkers. GM-CSF IFN-γ IL-2 IL-4 IL-6 IL-8 IL-10 TNF-α
IX. Bio-Plex® Validation Kit 4.0
Performance testing tool for Bio-Plex 200 system; works with Bio-Plex Manager 4.0, 4.1.1, 5.0, or 6.0 software and (uses MCV plate IV); ~50 validation routines (needed once per month)
X. Bio-Plex Calibration Kit 171203060
Performance testing tool for Bio-Plex 200 system, includes Cal1 and Cal2 calibration beads; ~50 daily calibration routines
XI. Sheath Fluid
20 L 1x fluid in cube container with pour spout, for use with the Bio-Plex® 200 and Bio-Plex 3D system array readers and high-throughput fluidics (HTF) system
XII. Bio-Plex Pro Human Inflammation 1 11-plx XPL Panel
1 X 96-well Flat Bottom Plate, x-Plex assay format that includes premixed coupled magnetic beads, premixed detection antibodies, standards, detection antibody diluent HB, standard diluent HB, sample diluent HB, assay buffer, wash buffer, streptavidin-PE, 96-well assay plate, and sealing tape for detecting Human sCD163, IFN-γ, sIL-6Rα, IL-8, IL-10, MMP-2, MMP-3, Osteocalcin, Osteopontin (OPN), Pentraxin-3, sTNF-R1, all in one kit

Lot 3

I. **Isoflow Sheath Fl**

II. **Cytoflex Ready to Use Daily QC Fluorospheres**

III. **Flow Clean IVD**

IV. **Major PM Kit**

I. ISOFLOW SHEATH Fluid

IsoFlow Sheath Fluid, CE marked, 10 L, low particulate and low fluorescence background sheath fluid for flow cytometry applications to ensure superior signal to noise ratio measurements during the user defined (non-automated) analysis process, compatible with Beckman Coulter flow cytometers.

II. Cytoflex Ready to Use Daily QC Fluorospheres

PRODUCT DESCRIPTION
Beckman Coulter CytoFLEX Ready to Use Daily QC Fluorospheres is a suspension of fluorescent microspheres, which may be used for daily verification of the CytoFLEX flow cytometer's optical alignment and fluidics system.
REAGENTS
CytoFLEX Ready to Use Daily QC Fluorospheres C65719 – 2 x 10 mL
REAGENT CONTENTS
CytoFLEX Ready to Use Daily QC Fluorospheres consists of a suspension of ~ 3 µm fluorospheres with a fluorescence emission between 355 nm to 800 nm when excited at 355 nm, 375 nm, 405 nm, 488 nm, 561 nm and 638. The mixture is suspended in an aqueous medium containing surfactants and stabilizers.

III. Flow Clean IVD

- FLOW CLEAN IVD, 500ML – EU A cleaning agent for use on Beckman Coulter flow cytometers: the Cytomics FC 500, Navios, Navios EX and DxFLEX Flow Cytometers components that come in contact with blood samples
- This azide-free, formaldehyde-free, biodegradable cleaner contains a proteolytic enzyme that aids in the removal of protein buildup in the fluidics system and flow cell of a flow cytometer. Semi-automated process where the reagent is automatically utilized by the flow cytometer when prompted by the user.

IV. Major PM Kit

The Preventative Maintenance (PM) kit for the Beckman Coulter CytoFLEX platform is used for maintaining CytoFLEX systems.
PM Kit PN- Contents:
2 Sheath Fluid Filter kit
1 Deep Solution Peristaltic Pump (for Contrad 70) Head
60cm Tubing OD1/8" ID1/16"
1 Filter and Sheath Fluid Damper bottle module kit
80cm Tubing OD5/32" ID3/32"
2 Pump tube (Sample pump) kit
1 One-way Filter
1 PMCD1602 GRN quick connector socket
1 PMCD1602 BLU quick connector socket
1 PMCD1602 ORG quick connector socket
2 In Line cleaning solution filter
1 Sample Probe (per packaging) 115mm
1Sample Probe (per packaging) 113mm