

ITEM OPPORTUNITY SYNOPSIS

Name of the item to be scouted: Mammalian cell/ tissue exposure system equivalent to VITROCELL Cloud Alpha MOVE

NAICS Code, if known:

Opportunities will be posted for 30 days unless another timeframe is given below.

Number of Days: 30

TECHNICAL INFORMATION

Describe the Item:

Please describe the item application/the end use of item. Need to purchase a mammalian cell/ tissue exposure system equivalent to the VITROCELL Cloud System which is manufactured in Germany. The system should consist of the following major components: a mammalian cell exposure system with a quartz crystal microbalance.

Provide the item number if applicable: (N95 Mask vs Protective Mask).

Supplier Information:

Type of Supplier being sought (select from list below)

Manufacturer

Contract Manufacturer

Distributor

Other (please specify)

Reason for scouting submission (select from list below)

2nd Supplier

Price

Re-Shore

Past supplier no longer available

New Product Startup

Other (please specify)

Summary of Technical Specifications and Performance Requirements:

Describe the manufacturing processes (elaborate to provide as much detail as possible)

The mammalian cell/ tissue exposure system should consist of an integrated system that generates aerosol with a nebulizer (particle size range 4.0 - 6.0 micron), utilizes droplet-cloud sedimentation to deliver repeatable particle doses to cells grown at the air-liquid interface (ALI), and quantifies dose delivery with an integrated quartz crystal microbalance (QCM) • Fully automated and repeated row-by-row exposure for up to 6 doses of aerosols to cells grown on 6.5 mm inserts and up to 4 doses to cells grown on 12 mm inserts • Base controller with touchscreen monitor, built-in nebulizer control unit, and electronic heating system • Stainless steel base module with sealing cover for commercial 24-well sized inserts • Stainless steel base module with sealing cover for commercial 12-well sized inserts

Provide dimensions / size / tolerances / performance specifications of the item.

The mammalian cell/ tissue exposure system should consist of an integrated system that generates aerosol with a nebulizer (particle size range 4.0 - 6.0 micron), utilizes droplet-cloud sedimentation to deliver repeatable particle doses to cells grown at ALI, and quantifies dose delivery with an integrated quartz crystal microbalance (QCM) • Fully automated and repeated row-by-row exposure for up to 6 doses of aerosols to cells grown on 6.5mm inserts and up to 4 doses to cells grown on 12mm inserts • Base controller with touchscreen monitor, built-in nebulizer control unit, and electronic heating system • Stainless steel base module with sealing cover for commercial 24-well sized inserts • Stainless steel base module with sealing cover for commercial 12-well sized inserts

List required materials needed to make the product, including materials of product components, if applicable.

Mammalian cell/ tissue exposure system, fully automated and repeated row-by-row exposure Base controller with touchscreen monitor Built-in nebulizer control unit electronic heating system. Nebulizer exposure top, material: Polycarbonate, 1 Nebulizer, Range 4.0 - 6.0 micron Media Supply: static V107011 equivalent -- stainless steel base module with sealing cover for commercial 24-well sized inserts 1 pc 6 individual doses @ 4 replicates, 24-well software package; Stainless steel base module with sealing cover for commercial 12-well sized inserts 1 pc 4 individual doses @ 3 replicates, 12-well software package, quartz crystal microbalance sqcm incl. oscillator for 12-well Series, 1 sqcm Sensor 12-well 1 Oscillator incl. cable, 1 set of 10 quartz crystals accessories included

Are there applicable certification requirements?

Yes

No

Please Explain:

Are there any applicable regulations that apply to the production of this item?

Yes

No

Please Explain:

Are there any other standards, requirements?

Yes

No

Please Explain:

Additional Comments:

Is there other information that would impact the item's performance or usefulness? Please explain.

- Vendor/company must be registered or will register in SAM.gov (<https://sam.gov/content/home>). - This inquiry does not guarantee award of a contract. - EPA requires a commercial off the shelf instrument that is immediately available that meets the technical specifications attached. Vendors shall provide documentation that their proposed product meets or exceeds the technical specifications attached.

Business Information

Volume and Pricing:

Estimated Potential Business Volume (i.e. #Units per day, month, year): 1

Estimated Target Price / Unit Cost Information: (flexible and negotiable not accepted) 1 for 153409.18

Delivery Requirements:

When is it needed by? (Immediate, 30 days, 6 months, etc) Quote aims to have manufactured and delivery ALI exposure instrument within 4-5 months of purchase date

Describe packaging requirements (i.e., individually/ group packaging). Safely packaged to maintain integrity of sensitive scientific equipment.

Where will this item be shipped? Research Triangle Park, NC



Jessica R. Murray, Ph.D.
U.S. Environmental Protection Agency
ORD / CPHEA / PHITD
Inhalation Toxicology Facilities Branch
109 T.W. Alexander Drive
Research Triangle Park, NC 27711
USA

Waldkirch, 18 July 2023

Sole source and manufacturing confirmation Cloud α MOVE System

Dear Dr. Murray,

We confirm that we are the worldwide exclusive manufacturer and sales organization for the VITROCELL® Cloud System.

The system consists of the following major components:

- **CLOUD Exposure System:** we are worldwide exclusive licensee of Helmholtz Center Munich: DE-Patent 10 2013 005 010.3 and further international applications
- **Quartz Crystal Microbalance:** we are worldwide exclusive licensee of KIT Karlsruhe: DE-Patent 10 2007 013 938.3 and further international applications

The offered product is designed and manufactured to 100% in Germany. Any preventative maintenance services including factory parts, training, and maintenance services are thus provided only by our company.

Kind regards,

Tobias Krebs
Managing Director

VITROCELL Systems GmbH
Fabrik Sonntag 3
79183 Waldkirch / Germany

e-mail: info@vitrocell.com
web: www.vitrocell.com
Managing Partner: Tobias Krebs

Commerzbank Bremen
BIC: COBA DE FF 290
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Register: HRB 700723
VAT ID: DE 814 802 524
Tax ID: 05069/08113

Commerzbank Freiburg
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IBAN: DE73 6808 0030 0417 9961 00



VITROCELL Systems GmbH | Fabrik Sonntag 3 | 79183 Waldkirch | Germany

US Environmental Protection Agency (EPA)
4930 Old Page Road
Durham, NC 27703
USA

Inquiry No.: Ticket#422299
Inquiry Date: 30.03.2023
Your Reference: Jessica Murray
Your Phone: 919.541.2401
Your E-Mail: Murray.Jessica@epa.gov
Your Customer No.: 110193

Sales Contact: Regina Zeller
Phone: +49 1525 1098000
E-Mail: r.zeller@vitrocell.com
Quote valid until: 19.09.2023

Offer AN 2023 1160

Date: 19.07.2023

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Dear Jessica,

we thank you for your inquiry.

Please find attached our offer.

If you have any further questions, please do not hesitate to contact me.
We would be happy to receive your order and assure you a timely completion.

With kind regards,

Regina Zeller

Pos.	Part No. Description	Quantity	Unit Price USD	Total Price USD
10	VC-0204-005 VITROCELL Cloud Alpha MOVE Base Unit <i>Fully automated and repeated row-by-row exposure</i> <i>Base controller with touchscreen monitor</i> <i>Built-in nebulizer control unit</i> <i>Electronic heating system</i> <i>Cloud exposure top, material: Polycarbonate</i> <i>1 Nebulizer, Range 4.0 - 6.0 micron</i> <i>Media Supply: static</i> <i>PowerVent Function for evacuation after each nebulization</i>	1 pc	112.700,00	112.700,00
20	V107011 Option: Stainless steel base module with sealing cover for commercial 24-well sized inserts <i>6 individual doses @ 4 replicates</i> <i>24-well software package</i>	1 pc	10.350,00	10.350,00
30	V107010 Option: Stainless steel base module with sealing cover for commercial 12-well sized inserts <i>4 individual doses @ 3 replicates</i> <i>12-well software package</i>	1 pc	9.200,00	9.200,00
40	V107023 Quartz Crystal Microbalance sQCM incl. oscillator for VITROCELL 12-well Series <i>1 sQCM Sensor 12-well</i> <i>1 Oscillator incl. cable</i> <i>1 Set of 10 quartz crystals</i> <i>Accessories included</i>	1 pc	5.405,00	5.405,00



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Date: 19.07.2023
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Pos.	Part No. Description	Quantity	Unit Price USD	Total Price USD
50	S000008 Controller Set VITROCELL QCM for up to 3 microbalance sensors <i>including</i> <i>VITROCELL Monitor Software</i> <i>Microsoft® Excel® License</i> <i>Laptop (QWERTY)</i>	1 pc	6.785,00	6.785,00
60	VC1024 Remote Installation and Training Day incl. webcam set	1 pc	1.610,00	1.610,00
Subtotal (USD)				146.050,00
Freight, Packaging and Insurance				2.977,68
Customs charges incl. handling				4.381,50
Total Amount (USD)				153.409,18

Delivery Terms

DDP

Payment Terms

10 days net

Payment Schedule

- 1) 30% Down payment upon order
- 2) 50% Down payment after delivery
- 3) 20% Final payment after installation and training

Delivery Time

The delivery time is **approx. 4-5 months**. The stated delivery time is valid after placing the order and final clarification of all technical and commercial details. The final delivery date will be specified with our order confirmation.

Delivery Address

US Environmental Protection Agency (EPA)
Human Studies Facility
ATT: Shaun McCullough
104 Mason Farm Road
Chapel Hill, NC 27514-4512
USA

Invoice Address

US Environmental Protection Agency
RTP-Finance Center (AA216-01)
109 TW Alexander Drive
Durham, NC 27711
USA

Transfer of Ownership

The transfer of ownership takes place after complete payment.

Warranty

We assure a proper and professional execution with regard to function, completeness and quality. The warranty period is 1 year - please see our warranty conditions.