

# MEPNN Supplier Scouting Opportunity Synopsis

Item Information	
Scouting Number	2023-092
Item to be Scouted	Mammalian cell/ tissue exposure system equivalent to VITROCELL Cloud Alpha MOVE
Days to be scouted	30
Description	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.
State item to be used in	North Carolina

Contact Information	
Email	murray.jessica@epa.gov
First Name	Jessica
Last Name	Murray
Department / Company / MEP Center	Environmental Protection Agency, U.S.
Bureau / Division / MEP Center Regional Office	Office of Research and Development (ORD), Center of Public Health and Environmental Assessment (ORD   CPHEA)

Supplier Information	
Type of supplier being sought	Manufacturer
Reason	2nd Supplier

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 consists 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 for 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	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?	No
Are there applicable regulations?	No
Additional Technical Comments	- Vendor/company must be registered or will register in SAM.gov ( <a href="https://sam.gov/content/home">https://sam.gov/content/home</a> ). - 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.

## Volume and Pricing

Estimated potential business volume	1
Estimated target price / unit cost information (if unavailable explain)	1 for 153409.18

## Delivery Requirements

When is it needed by?	Quote aims to have manufactured and delivery ALI exposure instrument within 4-5 months of purchase date
Describe packaging requirements	Safely packaged to maintain integrity of sensitive scientific equipment.
Where will this item be shipped?	Research Triangle Park, NC

## Additional Comments

Is there other information you would like to include?	
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