Fecha:	Abril 15 de 2026
Empresa:	Universidad de la Amazonía
Ciudad:	
Dirección:	
Contacto:	Paola Villegas Guzmán
E-mail:	p.villegas@udla.edu.co
Teléfono:	

N° de Oferta:	17971A
Entrega:	60 días
Validez:	90 días
Moneda:	COP
Términos de negociación:	DDP

Respetados Señores:

CECOLTEC S.A.S., como representante de Malvern Panalytical para Colombia (www.malvernpanalytical.com) se complace en presentar la siguiente oferta para su consideración:

Zetasizer Lab



Entry-level particle size and zeta potential analyzer with enhanced capabilities

Our entry-level Zetasizer does not compromise on features. The Zetasizer Lab incorporates Adaptive Correlation, M3-PALS and constant current zeta mode. The Zetasizer Lab also ships with ZS Xplorer, easy-to-use analytical software. ZS Xplorer offers instant feedback on data quality, and guidance on how to improve your results.

Features and benefits

The Zetasizer Lab is the perfect entry-level system, offering a wide range of features, including:

- DLS analysis: particle size measurements from 0.3 nm to 10 µm
- Extended size range analysis offers improved accuracy for particle sizes above 1 µm, and indicative results above 10 µm (using ZSU1002 Low Volume Disposable Sizing Cell)
- Zeta potential of nanoparticles and colloids using M3-PALS analysis and constant current zeta mode

- Molecular weight using Static Light Scattering at 90°
- Supports use of Low Volume Disposable Capillary Cell for size measurements in sample volumes as low as 3 µL
- On-site upgradeability to either Zetasizer Pro or Zetasizer Ultra models

Specifications

Particle size and molecular size

Measurement principle:
Classical 90° Dynamic Light Scattering

Measurement angle:
90°, 13° (1)

Measurement range:
0.3 nm to 15 µm (2)

Minimum sample volume:
3 µL

Concentration range:
Minimum Sample Concentration:
Blue Label: 1 mg/mL 15 kDa Protein

Maximum sample Concentration: (3)
40% w/v

Zeta potential

Measurement principle:
Mixed-Mode Measurement phase analysis light scattering (M3-PALS)

Size range:
3.8 nm – 100 µm

Minimum sample volume:
20 µL (4)

Concentration range:
1 mg/mL (5) to 40% w/v (6)

Sample conductivity range:
Maximum: 260 mS/cm

Static Light Scattering (molecular weight)

Measurement principle:
Static Light Scattering with Debye Plot

Molecular weight range:
980 Da – 20 MDa

Accuracy:
+/- 10% typical

System

Detector:
Avalanche Photodiode

Laser safety:

He-Ne (633 nm)
Blue label: 4 mW Max

Temperature control range:
0°C to 120°C (7)

Dimensions (W, D, H):
322 mm x 565 mm x 245 mm

Weight:
19 kg

Power:
AC 100-240 V, 50-60 Hz, 4.0 A

Power consumption:
Max 100 W, Typical 45 W

Ambient conditions:
+10°C to +35°C, 35 to 80% RH (Non-condensing)

Interface:
USB 2.0 or higher

Footnotes

Notes:

1 - Water as dispersant
2 - Indicative data available for particle sizes greater than 10 µm when using Extended Size Range analysis and low volume disposable sizing cell accessory
3 - Sample dependent
4 - Using patented diffusion barrier technique
5 - Measured using 15 kDa protein
6 - Measured using bile acid
7 - Dry nitrogen cell purge required for temperatures below dewpoint
8 - Accuracy 0.1°C at 25°C, 0.2°C at 0°C, 0.5°C at 90°C

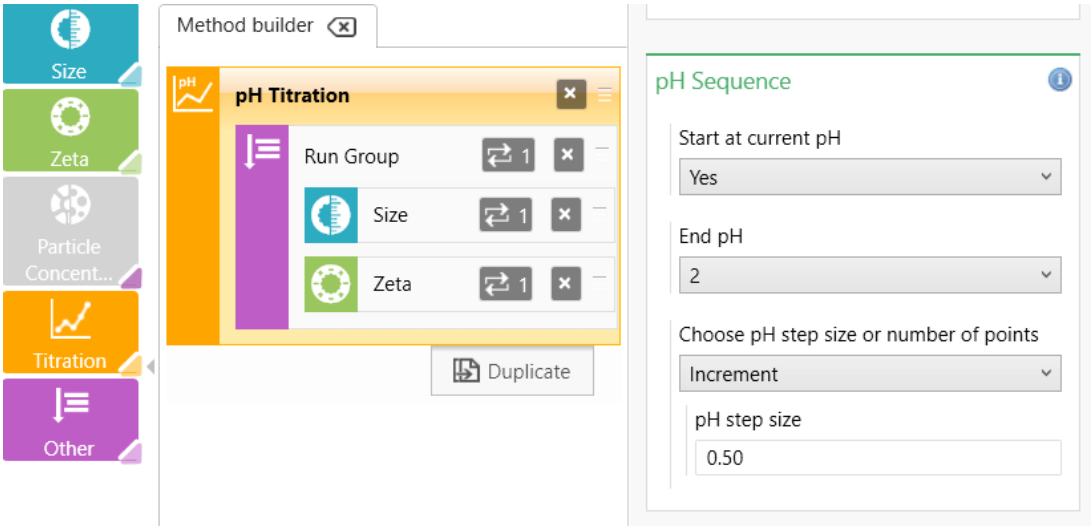
MPT-3 Autotitrator

Automate your pH titrations
The MPT-3 is a cost-effective accessory for the Zetasizer Advance range, designed to automate your Zeta and/or Size vs. pH titrations, helping you understand how your materials behave as a function of pH.

The zeta potential and/or size of your materials with pH changes can be critical in understanding:

- Material stability
- Agglomeration
- Flocculation
- Point of net-zero charge (isoelectric point)
- Storage conditions

Features and benefits
pH is one of the main influences on the zeta potential of materials. Understanding how your samples behave over a range of pH conditions is important in determining when they are most, or least, electrostatically stable, or even if their particle size will change (for instance, by agglomeration or dispersion) over a specific pH range.
The titration method step built into our ZS Xplorer software allows users to quickly and easily perform even complex multi-step titrations, increasing productivity by automating the whole titration process.



Results can be evaluated from within the ZS Xplorer software and any iso-electric points are automatically calculated for you.
How it works
The MPT-3 Autotitrator incorporates a pump to carry the sample from the reaction vessel to the Zetasizer, pH probe and measurement electronics, and three syringes for three titrants.
The syringes have low volume displacement and well-characterized plunger diameters. This allows the accurate addition of very small amounts of titrant, as low as 0.28 µL, which enables precise targeting of the desired pH value. This is particularly important at pH values close to neutrality.
The Autotitrator supports the use of two concentrations of acid or base in order to generate a very wide pH range. The system will automatically use the appropriate titrant to provide the minimum amount of additive with the maximum accuracy.
The whole measurement sequence can be stored as a method for subsequent re-use, allowing you to standardize your methods for specific materials.
Use of a degasser for titrants is recommended to prevent air-locks forming in the titrant lines.
Includes: MPT-3 Autotitrator, liquid filled micro pH probe kit, disposable sample cups, magnetic stirrer.

Specification

System compatibility	Size and zeta potential vs. pH titrations on Zetasizer Advance Series (zeta potential only on Zetasizer Lab model)
Solvent compatibility	Aqueous samples
Minimum sample volume	5 mL
pH range	1 - 13
Materials in contact with sample	Silicone tubing, PTFE, Polycarbonate, Polypropylene

Power	100 – 240V 50 – 60Hz 45VA required
Size range	180 mm x 400 mm x 370 mm (W x D x H)
Weight	6.2 kg
Includes	MPT-3 Autotitrator, liquid filled micro pH probe kit, disposable sample cups, magnetic stirrer.

PROPUESTA ECONÓMICA

Reference	Qty	Description	Precio
ZSU3100	01	Zetasizer Advance Series - Lab (Blue Label) for the measurement of size, molecular weight and zeta potential of dispersed particles & molecules The system includes max. 4mW HeNe laser (633nm) with high sensitivity APD detector. Size/Molecular Weight by DLS/SLS measured at 90-degrees. Unique Adaptive Correlation for faster, reproducible, DLS measurements with no data loss. Zeta potential analysis incorporates M3-PALS and Constant Current Zeta Mode for measurement of zeta potential distributions and improved data quality in conductive media. Includes ZS Xplorer Applicaton Software with its easy to use method builder for measurement control and data analysis with advanced data quality assessment and advice system. Class 1 Laser Product	
DTS1070	01	Disposable folded capillary cells Primarily for the measurement of zeta potential with the Zetasizer Nano and Zetasizer Advance ranges, but can be used for size measurement with models fitted with NIBS backscattering. Pack of 10 with 20 stoppers.	
DTS0012	01		
PCS8501	01	12mm o.d. square polystyrene cuvettes Pack of 100 with 100 stoppers for the Zetasizer Nano and Zetasizer Advance series of systems	
ZTS1240	01	12mm o.d. square glass cell with circular aperture and stopper For size measurements. Compatible with the Zetasizer Nano series, Zetasizer μV and Zetasizer Advance series. Not suitable for use with the 'dip' electrophoresis electrodes Zeta potential transfer standard, 1 syringe	
		Precio DDP	$ 171,260,504
		IVA (19%)	$ 32,539,496
		Precio DDP IVA incluido	$ 203,800,000

NOTAS ADICIONALES	
Instalación	La oferta incluye la instalación del equipo
Garantía (s)	1 año
Términos de pago	50% anticipado –50% a 30 días fecha factura

OBSERVACIONES GENERALES

- La oferta de Cecoltec S.A.S., incluye la instalación del equipo y capacitación a los operarios, completamente libre de costo por un total de dos (2) días.
- La capacitación incluye: teoría de los principios básicos de tamaño de partícula y potencial Z, funcionamiento teórico del equipo, manejo del software e interpretación de resultados.
- La garantía de la unidad está cubierta a través del servicio técnico de Cecoltec S.A.S. Esta garantía cubre defectos de funcionamiento y/o fabricación o fallas que no sean ocasionadas por fluctuaciones en la corriente eléctrica, durante un (1) año luego de la instalación del equipo en el laboratorio.
- El equipo deberá conectarse a una UPS de 1kVA.
- El soporte técnico de la unidad es prestado localmente por Cecoltec S.A.S.
- El pago para la entrega DDP deberá ser 50% anticipado y 50% a 30 días fecha factura a Cecoltec S.A.S.
- El computador para el manejo del equipo será entregado localmente por Cecoltec S.A.S.

DATOS DEL COTIZANTE:
CECOLTEC S.A.S.
191 037 892 92 Cuenta Corriente – Bancolombia
907 612 429 30 Cuenta Corriente – Bancolombia
001 309 430 100 000 158 Cuenta Corriente - BBVA

RESPONSABILIDAD
Cecoltec S.A.S, no responde por lucro cesante que le puedan ser imputables con ocasión del incumplimiento de sus obligaciones, y el monto de los perjuicios indemnizables va máximo hasta el valor de este contrato

Si se tiene alguna duda con relación a la presente por favor no duden en contactarnos.

Cordialmente,

Diana G. Palacio

Diana C. Palacio
Ventas Consultivas y Proyectos
Key Account Manager
Cecoltec S.A.S
dpalacio@cecoltec.com
Carrera 43 A No 18 Sur 135 Of. 732
Tel. 6043223597
Representantes de Malvern Panalytical para Colombia