

WePure Biotech

(Guangzhou) Co., Ltd.

HPLC Columns and Chromatographic Media

Analytical · Preparative · Bioanalytical · Sample preparation

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Forty-four bonded phases, 1.7 µm to preparative scale.
Manufactured in house, from raw silica through to finished column.

EXCLUSIVELY DISTRIBUTED IN CANADA BY

COOL EARTH CANADA SCIENTIFIC SOLUTIONS

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A manufacturer, not a repackager

WEPURE

Much of what reaches a laboratory as a new column brand is silica bought in, packed by a third party, and labelled. WePure Biotech is not that. The company makes its own silica microspheres, bonds its own phases, packs its own hardware and tests every batch before it ships — the whole chain on one purpose-built site in Nansha District, Guangzhou.

That matters more than it sounds. A distributor who buys packed columns cannot tell you why one lot behaves differently from the last, and cannot change anything if it does. A manufacturer can, because the variable that moved is one it controls.

Dr. Huang Xiao

Co-Founder, Chairman and Chief Technology Officer

— PhD in Chemistry, Georgetown University
— Professor, Shanghai University, 2018–2022
— National Award for Science and Technology Progress
— Former Senior Research Chemist, Waters Corporation
— Twenty-one Chinese and two US/EU patents granted

The comparison studies in this brochure are run against Waters columns. The man who set the specifications those columns are measured against spent part of his career inside Waters, and knows what the reference looks like from the other side.

Quality system	ISO 9001:2015, certificate 04925Q01818R1S, issued under CNAS accreditation and valid to 19 December 2028. Scope: research, manufacture and sale of liquid chromatography packing and chromatographic columns.
United States FDA	Three Type II Drug Master Files covering the silica base materials — DMF 041399, 041400 and 041401, submitted 11 March 2025. A Drug Master File is acknowledged by FDA rather than approved, and is reviewed when referenced in an application.
Audit	The Guangzhou site is open to customer audit. Requests are arranged through Cool Earth.



Research and development laboratory



Quality control, with finished product on the bench

Five lines, one supply chain

MicroPulite — analytical columns

HPLC and UHPLC on hybrid, high-purity, surface-charged hybrid and high-strength silica, in particle sizes from 1.7 to 5 µm. Bonded phases include C18, C8, C4, RP18, phenyl-hexyl, amide, HILIC, pentafluorophenyl and mixed-mode reversed-phase / ion-exchange.

PrePulite — preparative media

Bulk packing and packed columns for purification at process scale, in 50 g, 100 g, 500 g and 1 kg. Silica supports plus polymeric resins in HLB, MCX, MAX, WCX and WAX for high-loading work.

BioPulite — bioanalytical

300 Å wide-pore supports for peptide mapping, intact proteins, monoclonal antibodies, oligonucleotides and lipid nanoparticle analysis, with size-exclusion phases at 125 Å and 300 Å.

Upulite — sample preparation

Solid-phase extraction and sample pre-treatment media, in cartridge and bulk formats.

WeChromlite — guard columns

Matched to the corresponding analytical chemistries, analytical and semi-preparative.



Every analytical column carries its USP L-classification.

Where a compendial method is in use, a change of column between equivalent stationary phases is normally addressed through system suitability testing rather than full method revalidation. The cross-reference gives the L-number, pH range, carbon load, end-capping, aqueous compatibility, temperature range, bonding type, pore size, surface area and Waters counterpart for each of the forty-four phases.



Preparative columns and bulk media, 50 g to 1 kg

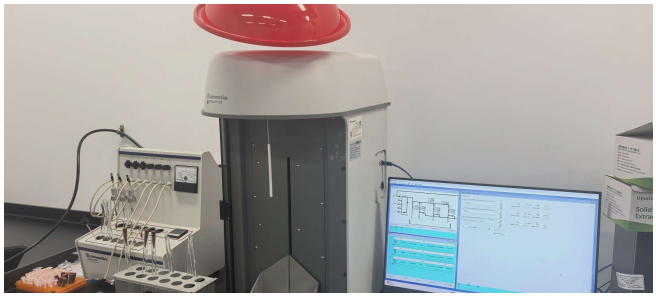


MicroPulite analytical columns, 100 to 250 mm

COMPREHENSIVE QUALITY ASSURANCE

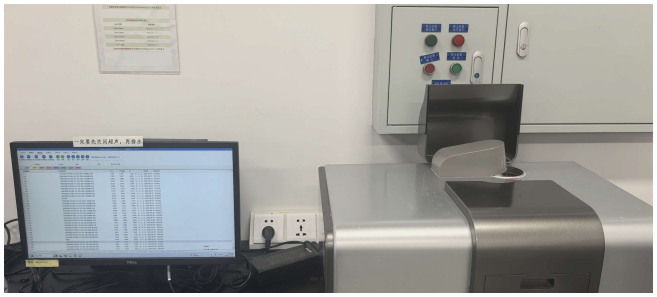
The numbers are measured, not asserted

Every figure in the specification table — pore size, surface area, particle size, carbon load — comes off an instrument in WePure's own laboratory. These are the instruments, and this is what each one is answering for.



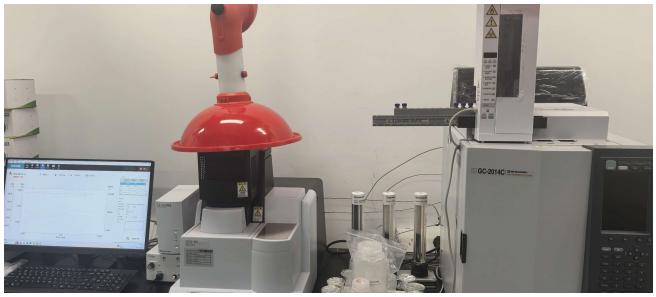
Micromeritics TriStar II PLUS

Nitrogen physisorption. Measures BET surface area and pore size distribution — the 100, 120, 130 and 300 Å pore sizes and the 100 to 320 m²/g surface areas quoted for every phase in the cross-reference.



BT-9300ST laser particle size analyser

Particle size distribution, D10 / D50 / D90. Not only the nominal 1.7, 3.5, 5 or 10 µm, but the width of the distribution — which is what actually governs back-pressure and how long a packed bed stays stable.



Shimadzu DTG-60 and GC-2014C

Thermogravimetric analysis gives carbon load by mass loss on combustion; the gas chromatograph determines residual solvent on finished media. Carbon load is the number a chromatographer reads first, and it is measured here rather than calculated from a recipe.



Preparative chromatography laboratory

Scale-up and packing development. Preparative behaviour cannot be inferred from an analytical column; loading, resolution and cycle life are established on preparative equipment before a medium is offered.

> **A supplier who cannot measure a specification is quoting someone else's.**
>
> Ask any prospective column supplier which instrument produced the surface area on their datasheet. The answer separates a manufacturer from a label.

Every batch, not every campaign

The same laboratory releases production. A Certificate of Analysis is issued for every batch and transmitted to the customer unaltered, so a reviewing quality unit sees the manufacturer's own numbers rather than a distributor's summary of them. Batch identity is preserved from the packing bench through to delivery.

- Column dimensions, particle size and pore size
- Carbon load
- Peak asymmetry and tailing factor
- Back-pressure at the stated test condition
- Bonded phase and end-capping status
- Plate count and plate height
- Retention factor and selectivity
- Test method, mobile phase and batch number



Benchmarked on the instruments you already own

WEPURE

WePure's application laboratory runs Waters Arc HPLC and Thermo Scientific Vanquish UHPLC systems. Comparative work is carried out on the incumbent manufacturer's own hardware, which is the only way a comparison means anything to the laboratory being asked to consider a change.

Six head-to-head studies against Waters and ThermoFisher reference columns are documented in full — each run under identical method parameters, with no re-optimisation of the method in our favour. Annotated chromatograms and conclusions are supplied on request and form part of the supplier qualification package.

Twenty of the forty-four phases have no Waters counterpart

Equivalence matters when a validated method is already in place. When a method is still being developed, what matters is selectivity that cannot be bought elsewhere. Four worth knowing about:

MicroPulite XP T3

A low-density C18 for polar retention and fully aqueous mobile phases, on a hybrid support stable from pH 1 to 12. Our pure-silica and high-strength-silica T3 columns map to Atlantis T3 and XSelect HSS T3 and share their pH 1 to 8 range. The hybrid version has no counterpart: no T3 chemistry appears in the Waters BEH range.

MicroPulite XP tC18/PFP

Mixed-mode C18 and pentafluorophenyl on hybrid silica, pH 1 to 12, for separations that neither chemistry resolves alone.

BioPulite Perfect SEC 125 and SEC 300

PEG-bonded size-exclusion phases, USP L33, for aggregate and fragment profiling.

BioPulite XP Protein RP18 and RP18 Plus

Polar-embedded and carbamate chemistries on a 300 Å wide-pore hybrid support, pH 2 to 11.



Thermo Scientific Vanquish UHPLC alongside preparative chromatography, WePure application laboratory

How this works in Canada



1. Tell us what you run now.

The column types in use at the relevant laboratory are all we need to identify candidates from the cross-reference.

2. We supply evaluation columns at no charge.

Your analysts verify performance against your own validated methods, on your own instruments, before any commitment is made. No column is sold on the strength of a brochure.

3. Your quality unit reviews the file.

A supplier qualification package of eight separately titled documents is ready to send: distributor authorization, company profile, completed supplier questionnaire, the L-classification cross-reference, the ISO 9001:2015 certificate, the FDA Drug Master File summary, a specimen Certificate of Analysis and the comparative performance data.

4. Supply and support.

A Certificate of Analysis is issued with every batch and transmitted unaltered. Batch identity is preserved through to delivery. Technical support is provided in English and French, with escalation to the manufacturer's technical staff where a question warrants it.

Where the economics come from

Cool Earth buys direct from the manufacturer and sells direct to the laboratory — no intermediary margin, and no instrument maker's brand to carry. The columns hold the same USP L-classification as the ones they replace, so the comparison is like for like. Ask for a quotation against the column you run today.

Cool Earth Canada Scientific Solutions

Cool Earth Environment Protection Solutions Inc., a Québec company incorporated in 2006, is the exclusive Canadian distributor for WePure Biotech (Guangzhou) Co., Ltd. The authorization is renewed annually and the current certificate runs to 3 August 2027.

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PrePulite preparative columns