

A white, articulated robotic hand is shown in a reaching gesture, set against a light blue background with faint, glowing circular patterns and lines. The hand is highly detailed, showing joints and mechanical components.

# Fortis Technologies

## Strength in Technology





# Evosphere Monodisperse Particles

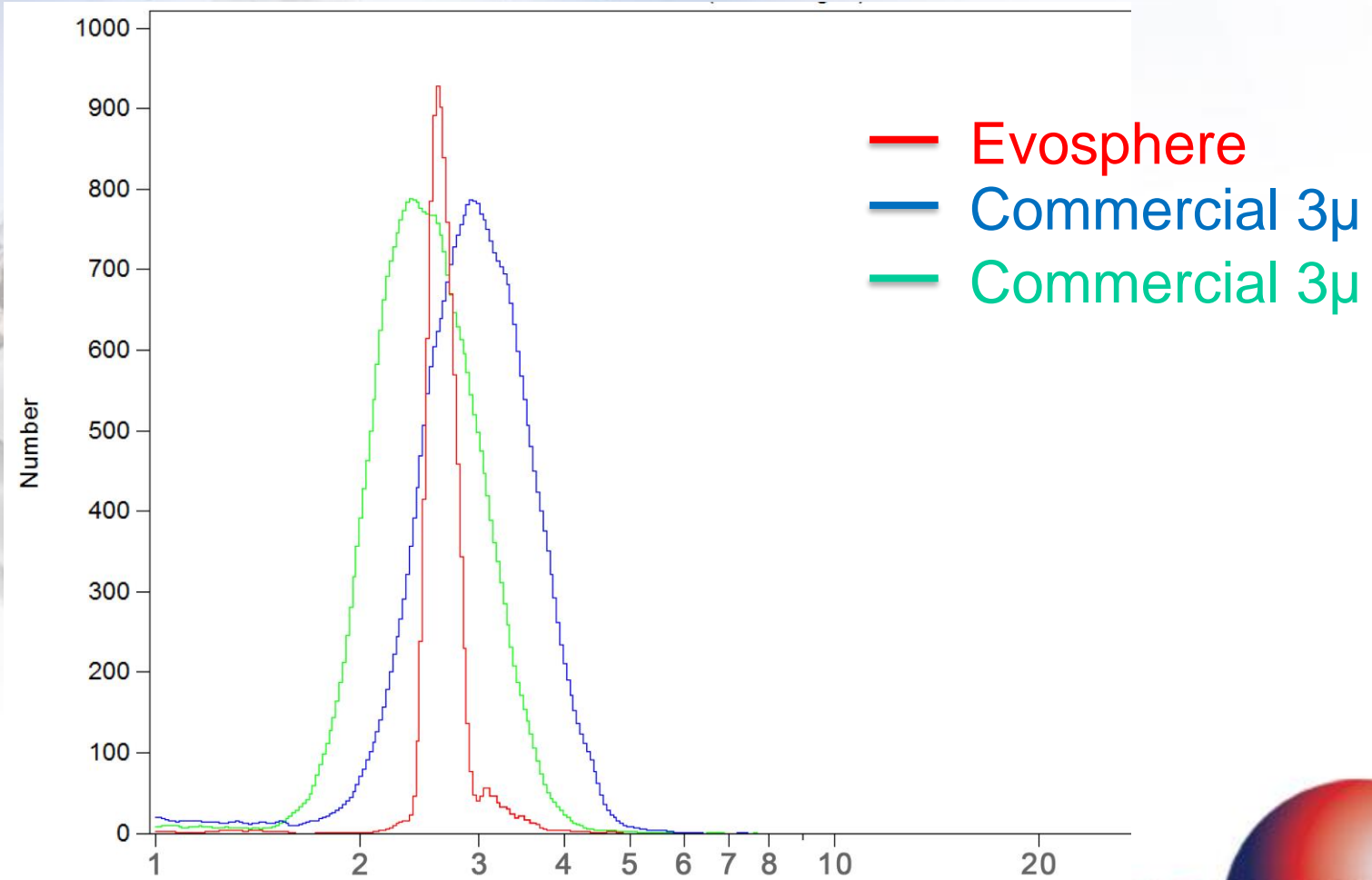


# Phase Selectivities

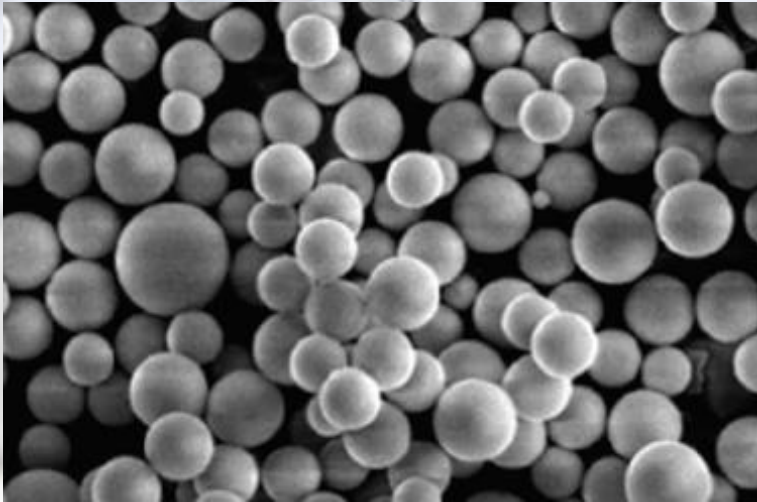
- Evosphere C18/PFP
- Evosphere C18/AR
- Evosphere Phenyl-Hexyl
- Evosphere RP18-Amide
- Evosphere C12
- Evosphere AQUA
- Evosphere Diphenyl
- Evosphere PFP



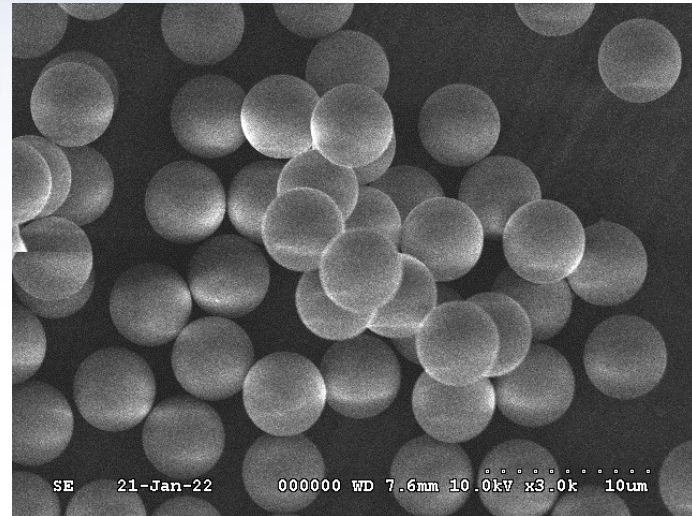
# D90/10 Monodisperse



# Particles



Traditional  
porous particles



Monodisperse  
Porous Particles



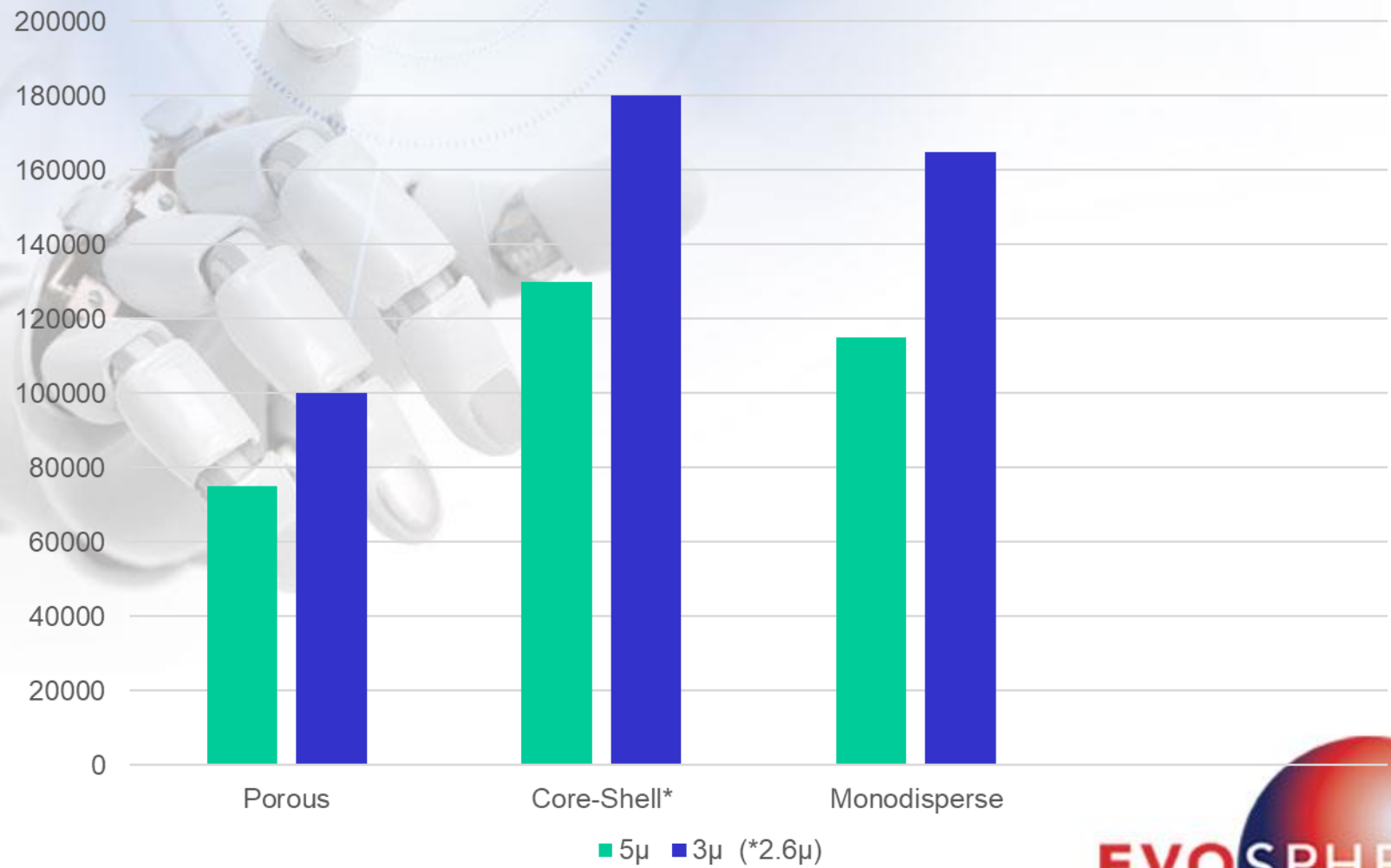
# D90/10

	<b>Monodisperse silica</b>	<b>Commercial silica - A</b>	<b>Commercial Silica-B</b>
<b>Mean particle size (d50)</b>	2.66um	2.49um	2.97um
<b>D90/10</b>	1.12	1.58	1.61
<b>Pore volume</b>	0.89	0.88	0.89

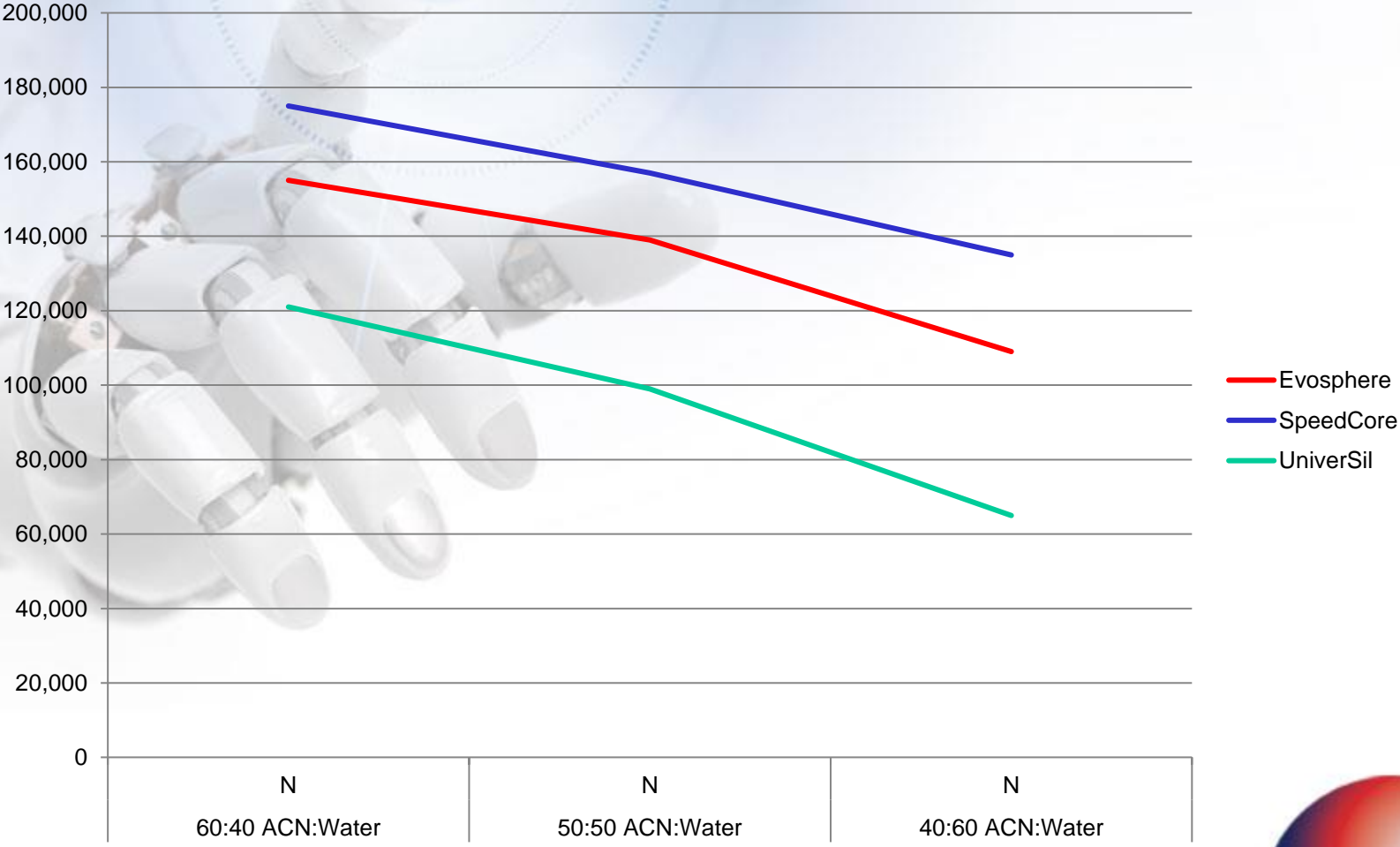
\* Measured by Coulter Counter



# Efficiency

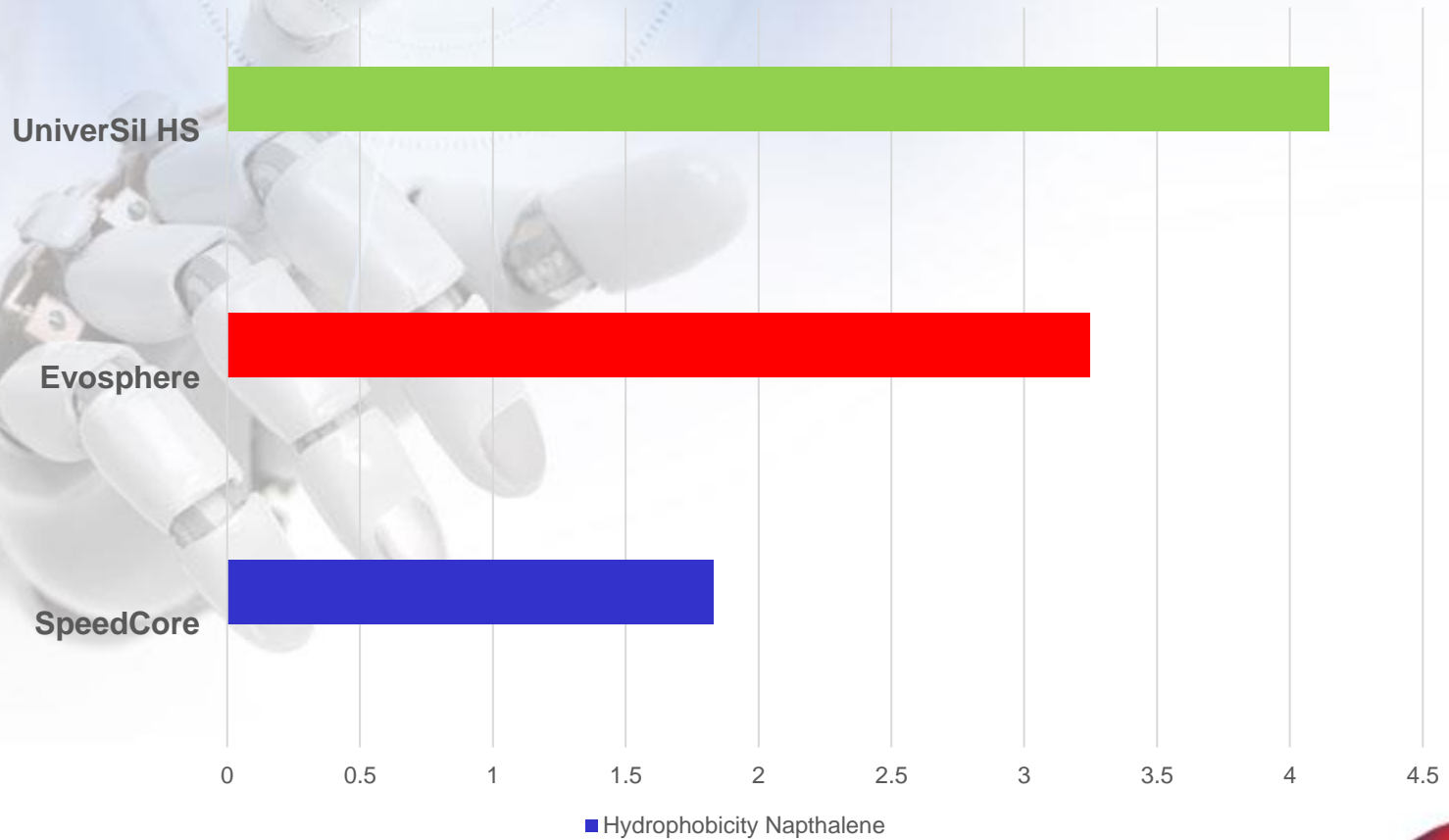


# Efficiency

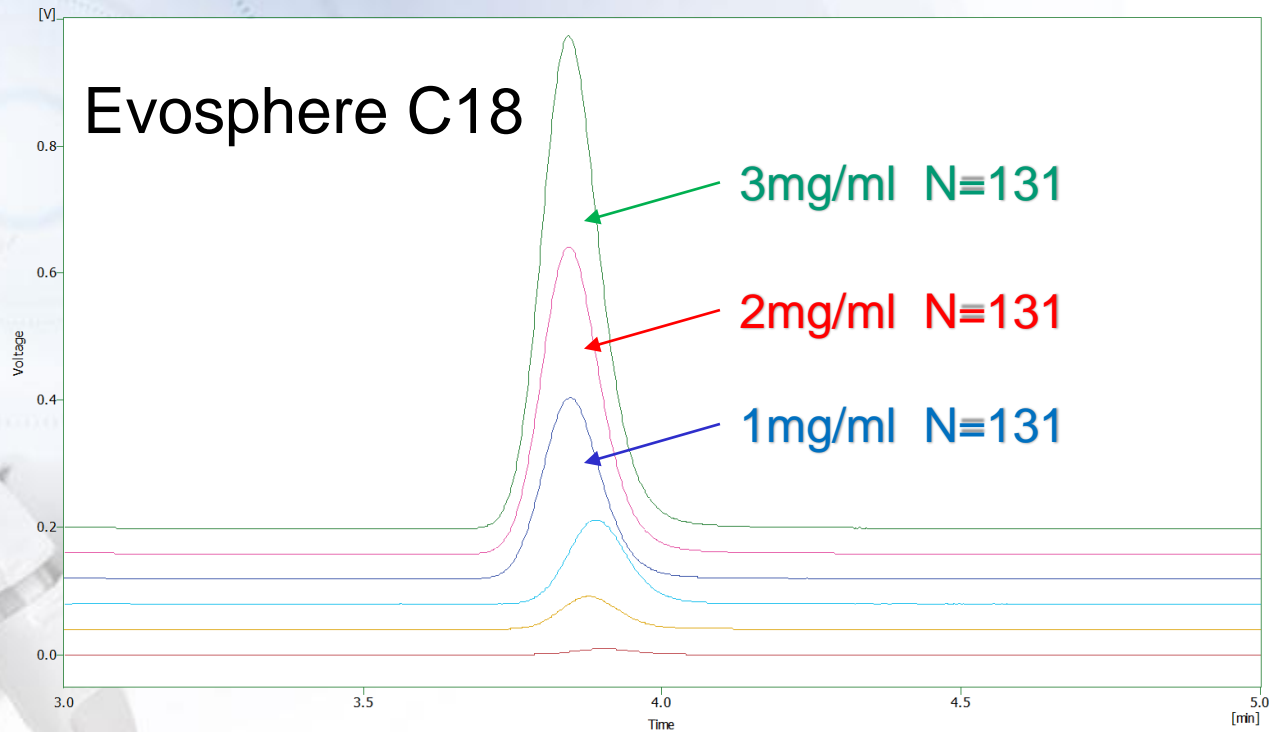




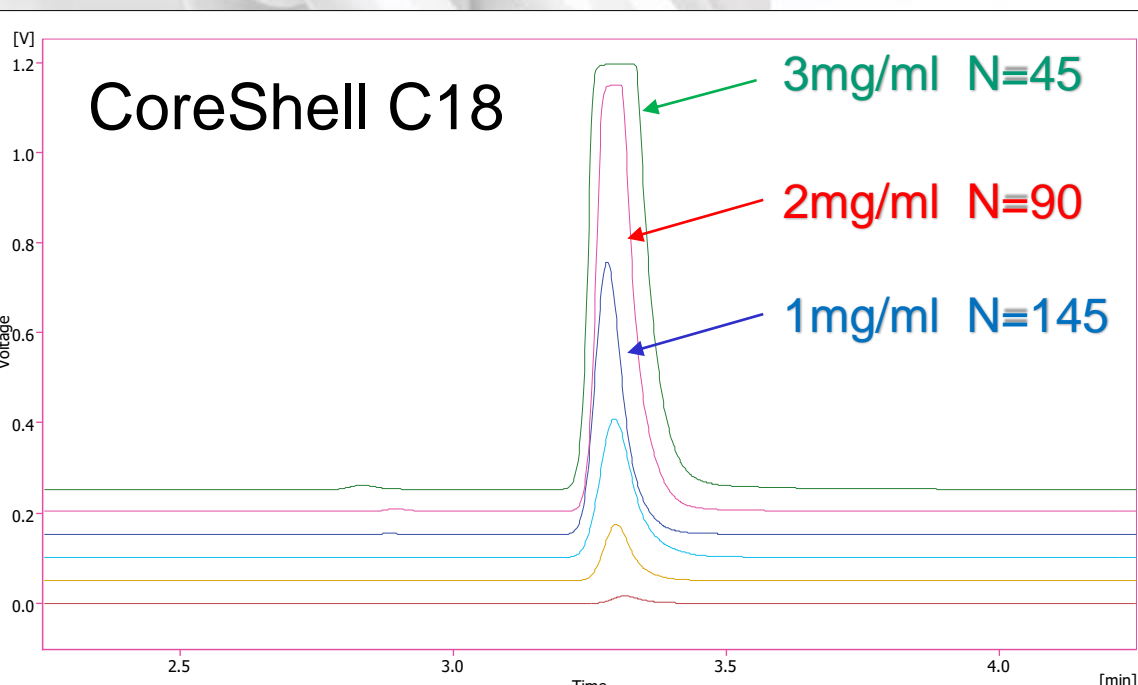
# Hydrophobicity



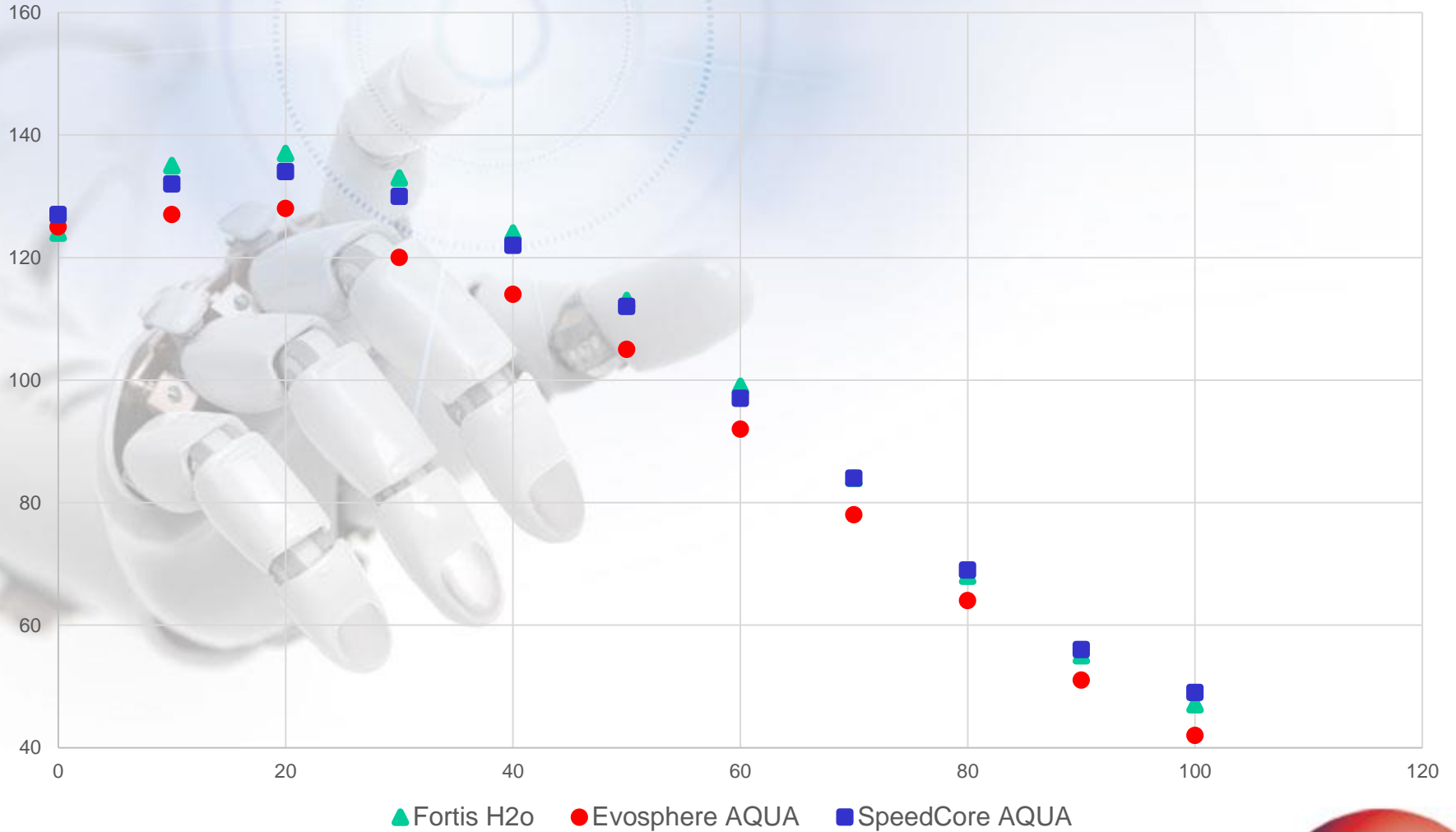
## Evosphere C18



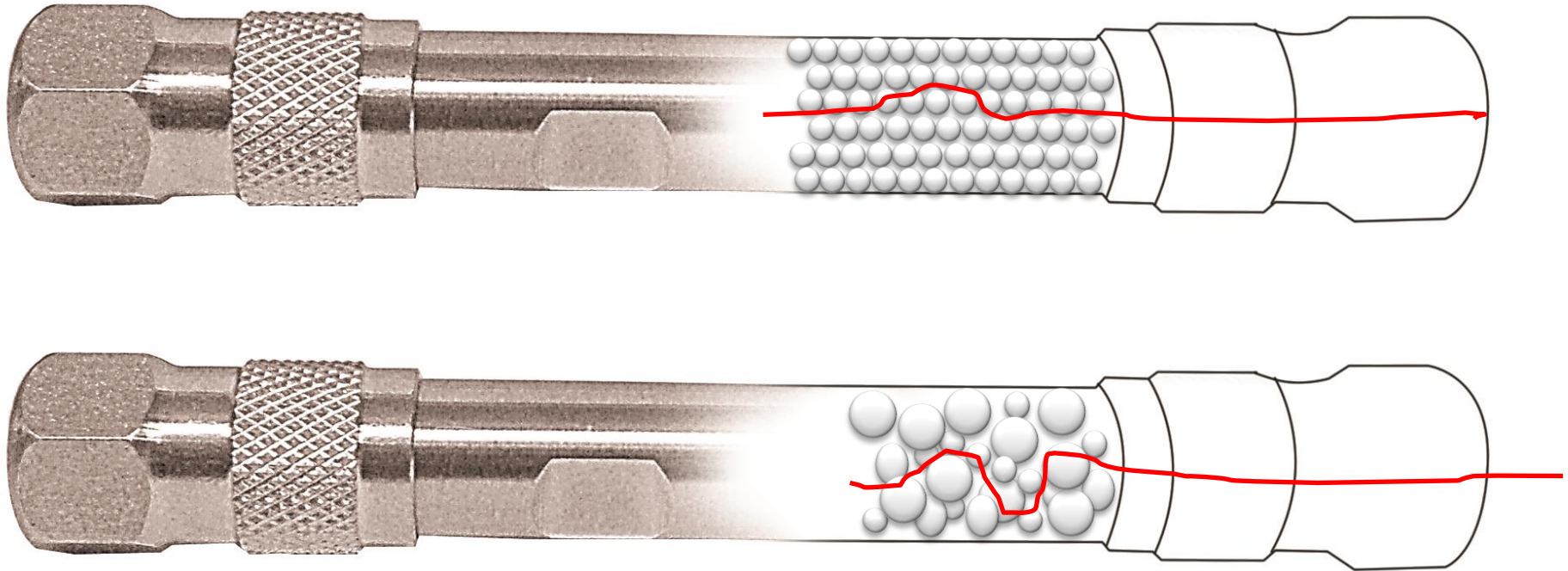
## CoreShell C18



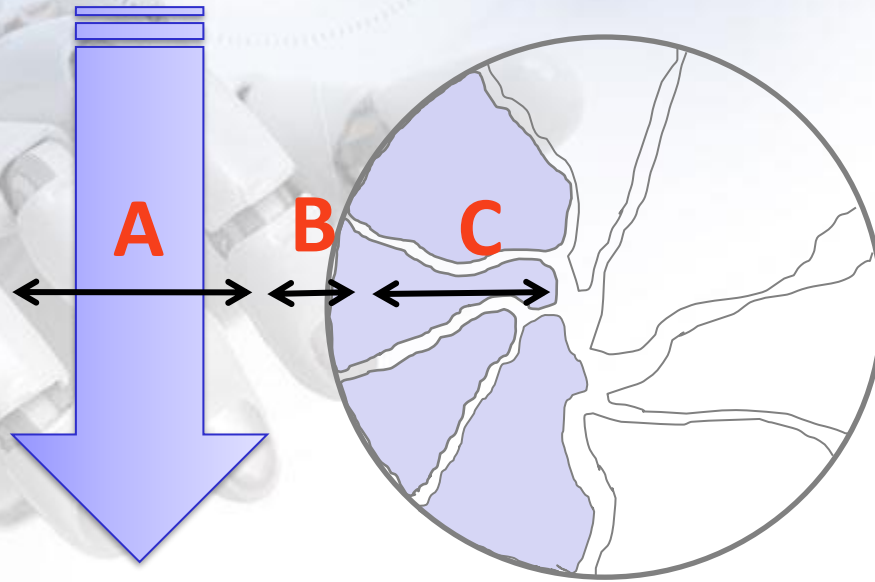
# Backpressure in ACN



# Bandbroadening

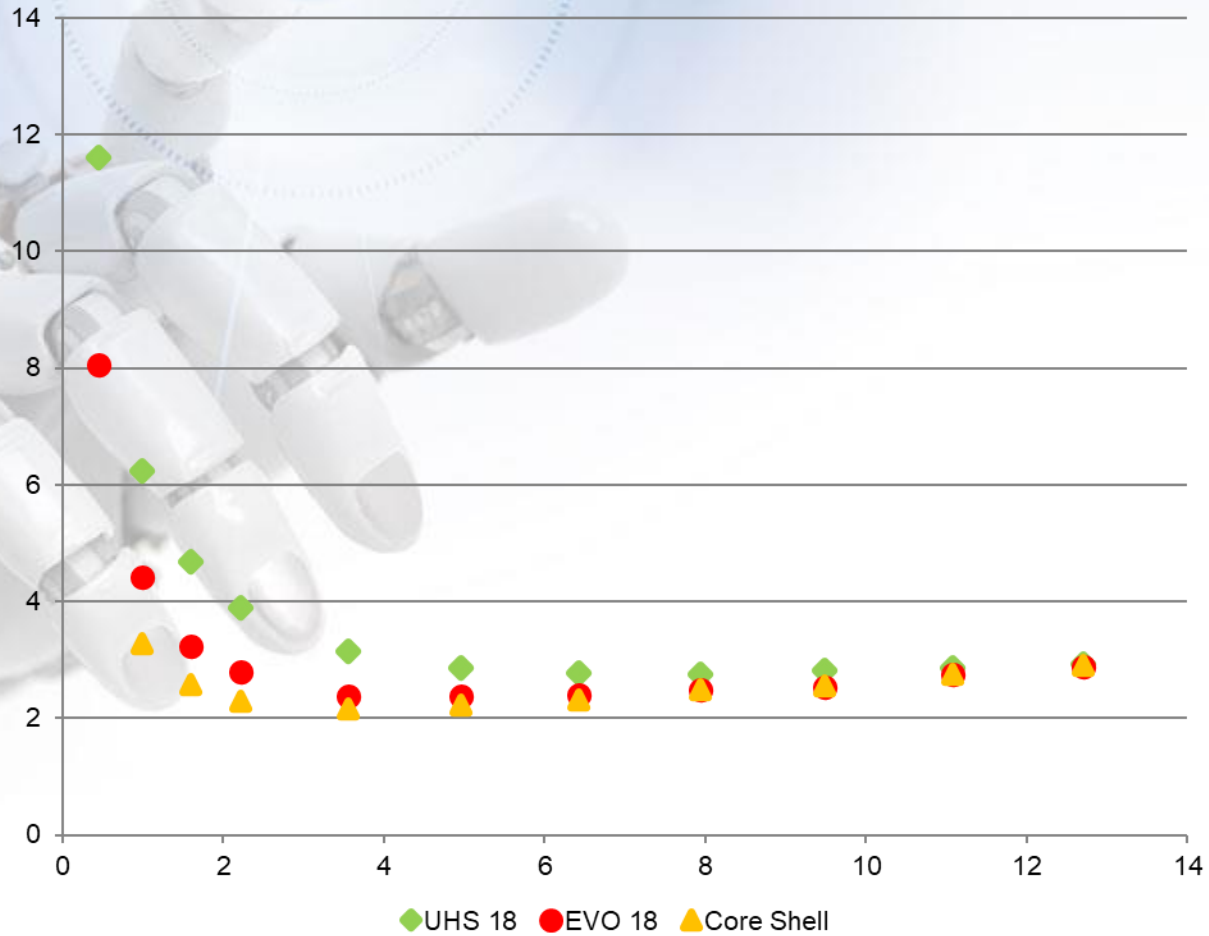


# Equation for dispersion



$$H = A + \frac{B}{u} + C.u$$

# Van Deemter

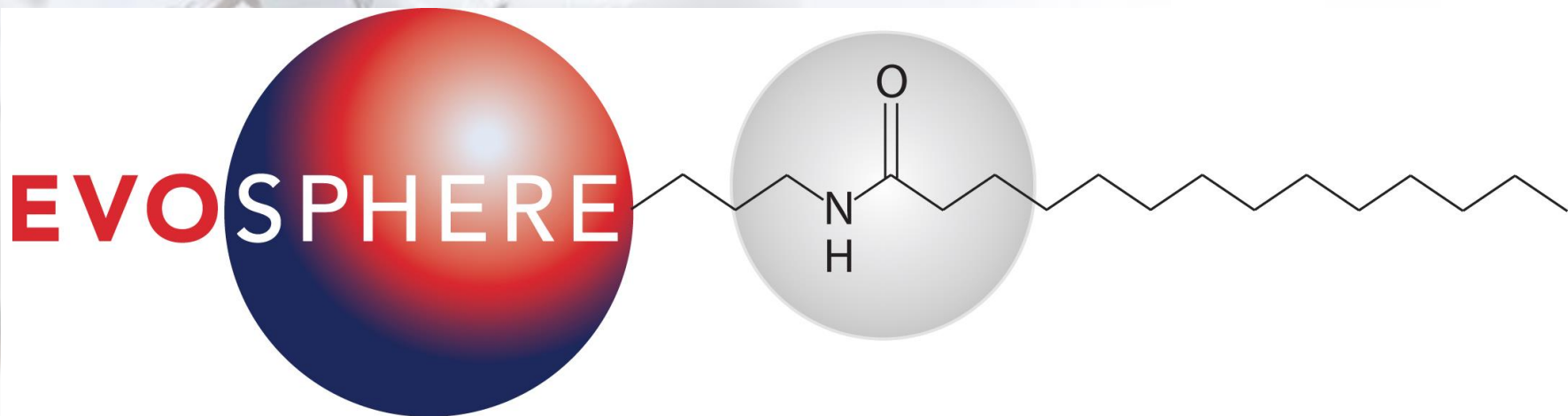


# Selectivity

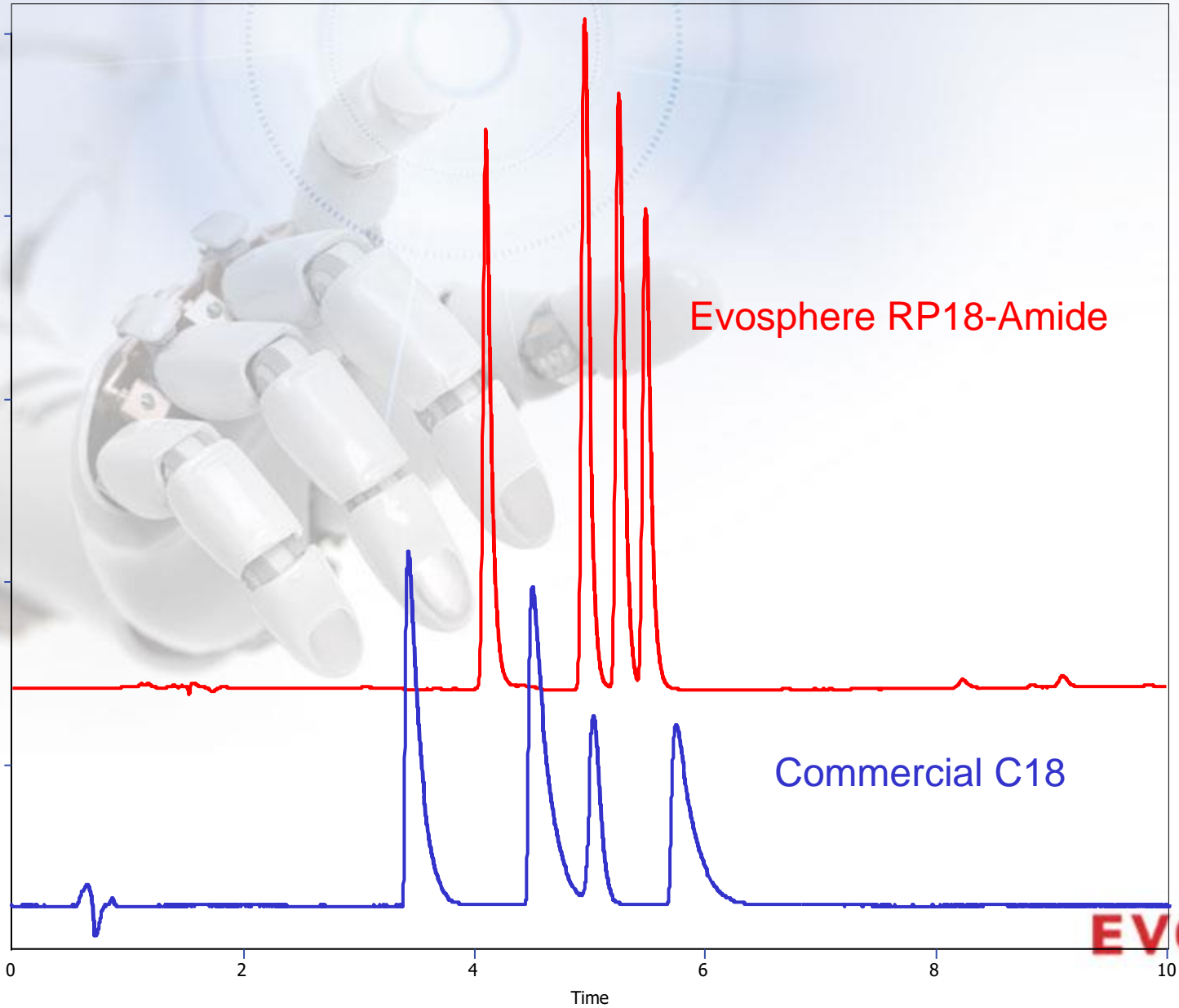
- Evosphere C18/PFP
- Evosphere C18/AR
- Evosphere Phenyl-Hexyl
- Evosphere RP18-Amide
- Evosphere C12
- Evosphere AQUA
- Evosphere Diphenyl
- Evosphere PFP



# Evosphere RP18-Amide





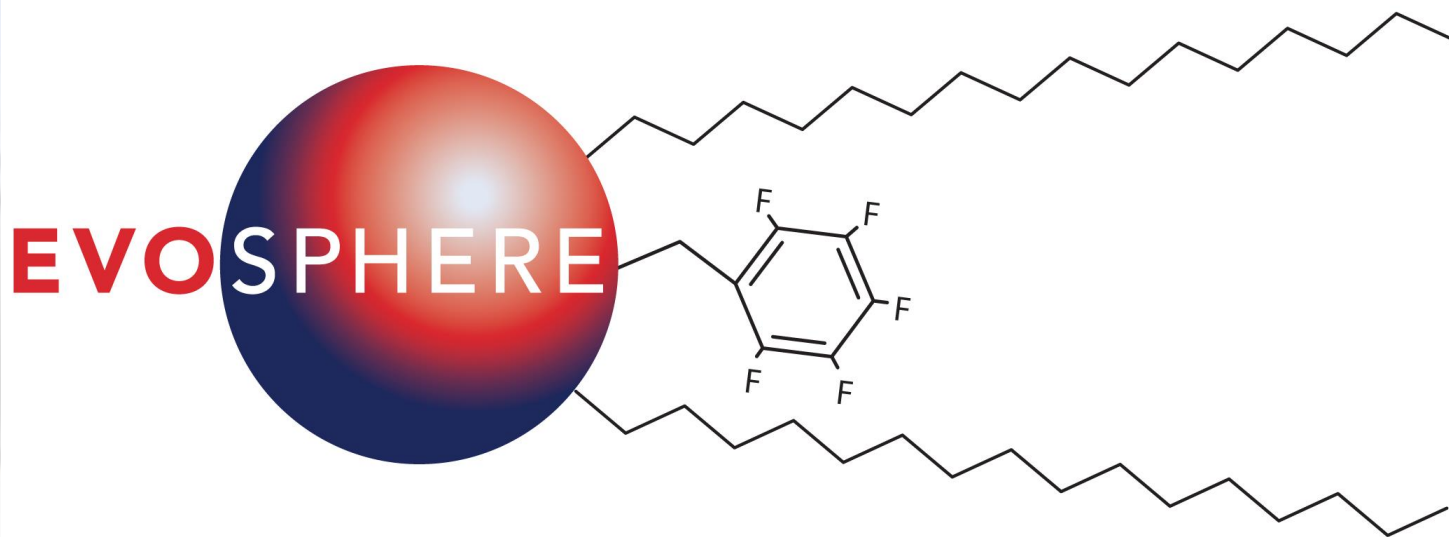


Evosphere RP18-Amide

Commercial C18



# Evosphere C18/PFP

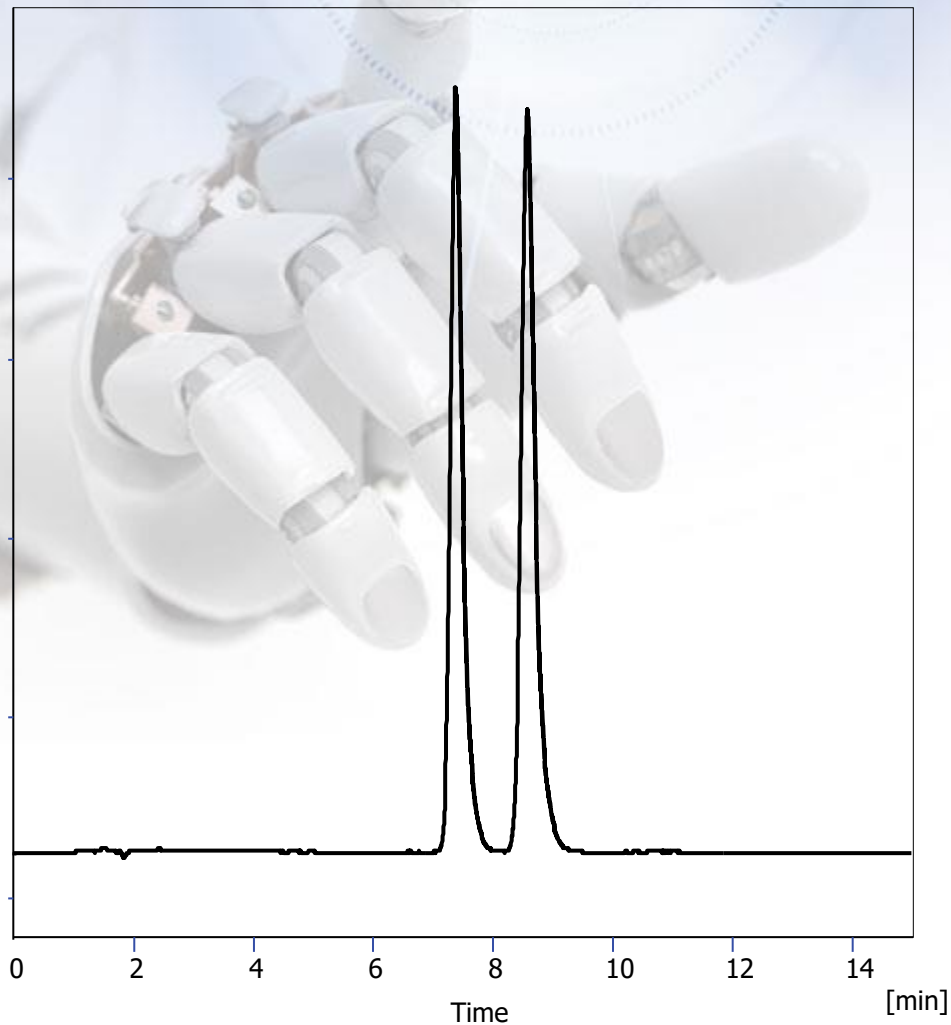


- NEW** ➤ Multiple interactions
- Hydrophobic
  - pi-pi
  - Shape selectivity

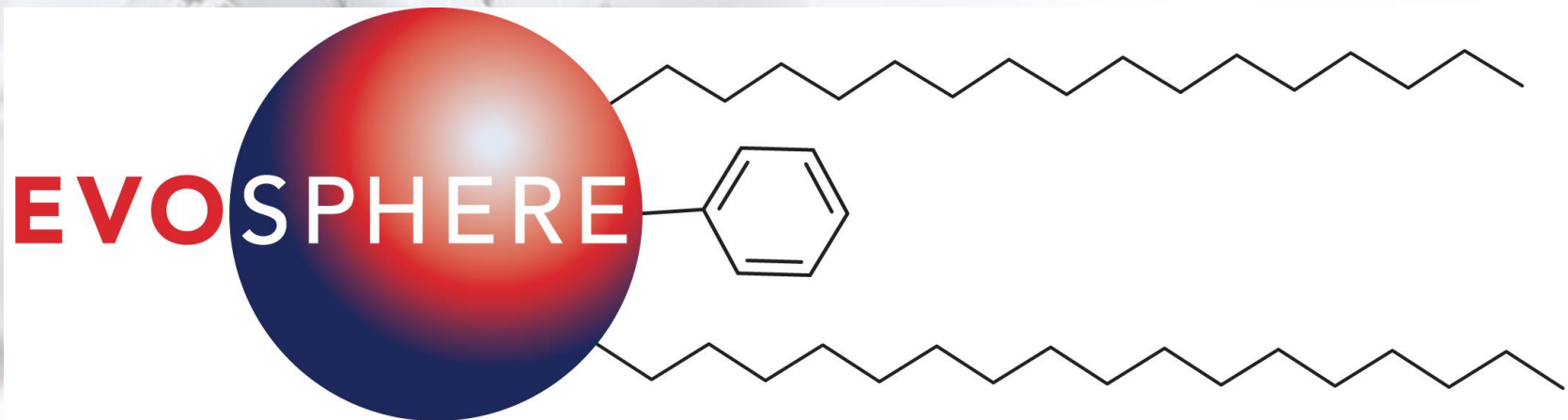


# Progesterones

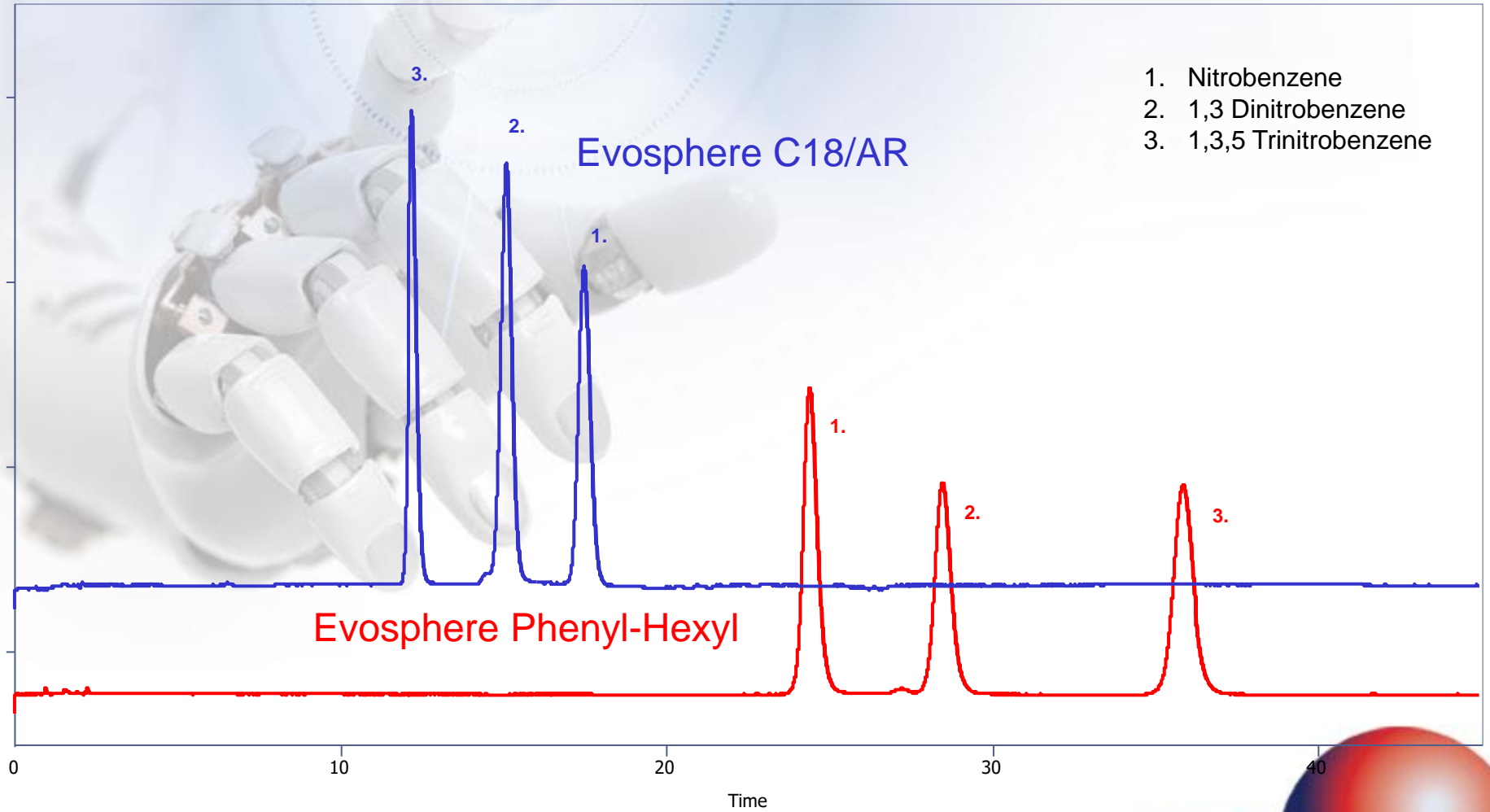
- Column : **EvoSphere C18/PFP**  
**150x4.6 5µm**
  - p/n : **EV18FP-050705**
  - Mobile Phase:  
**30:70 0.1% Formic acid in water:MeOH**
  - Flow : **1.0 ml/min**
  - Temp : **20°C**
  - $\lambda$  : **254nm**
1. **21-Hydroxyprogesterone**
  2. **17 $\alpha$ -Hydroxyprogesterone**



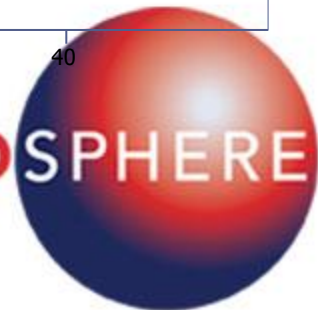
# Evosphere C18/AR



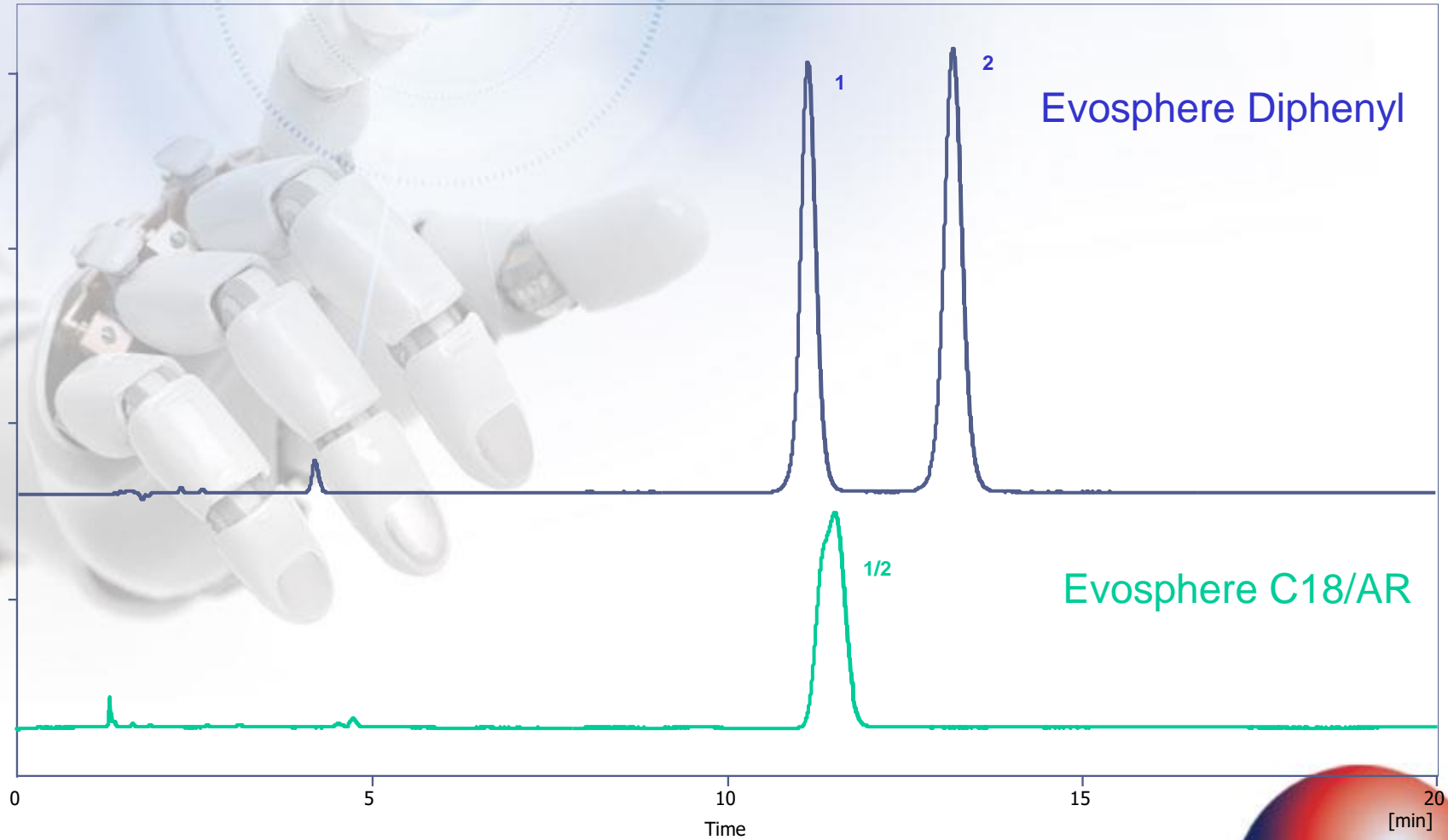
# Explosives



**EVOSPHERE**



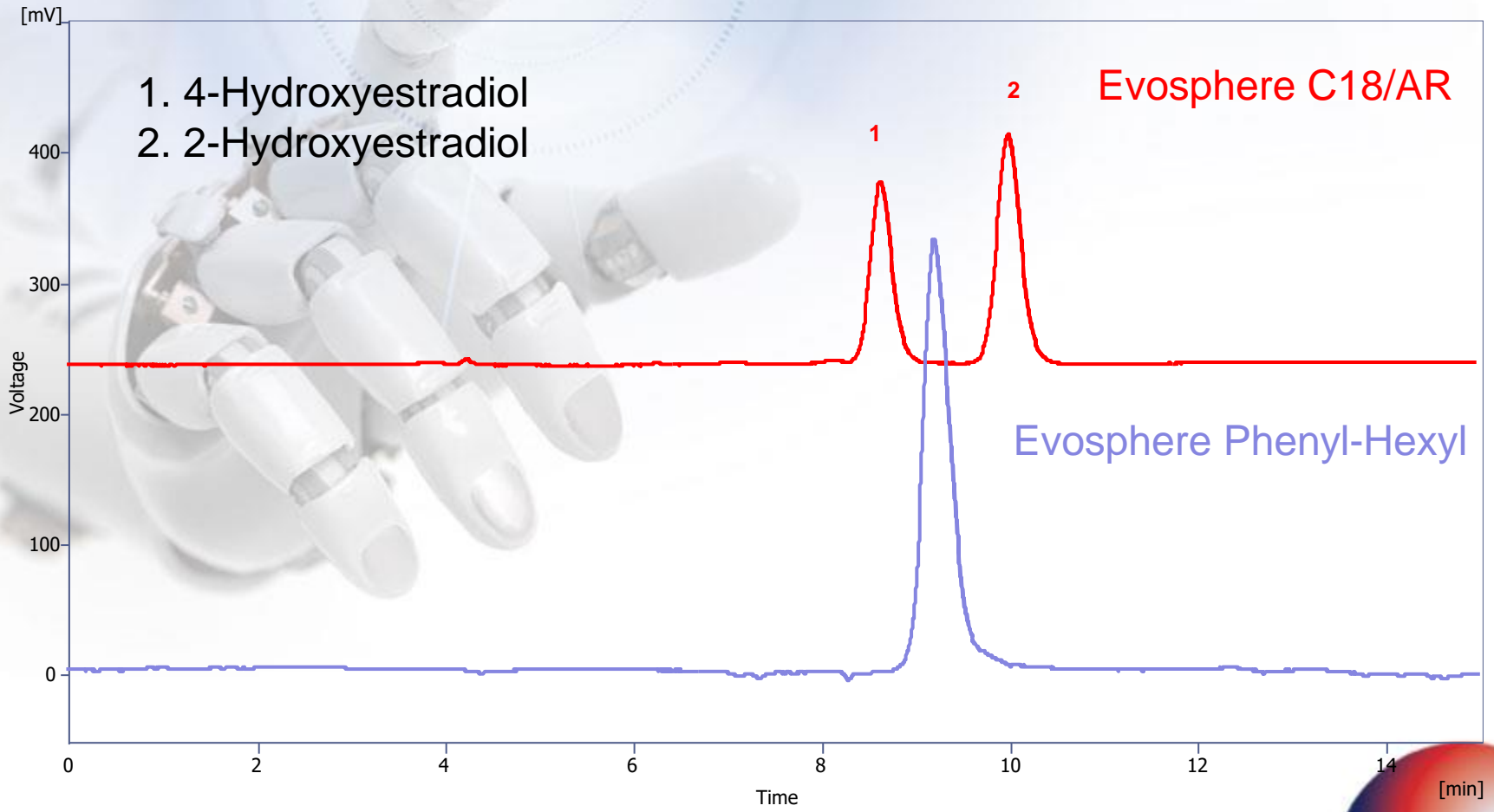
# Analgesic Drugs



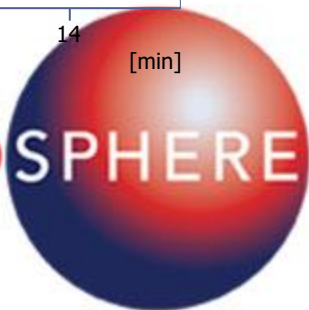
1. Ibuprofen 2. Indomethacin



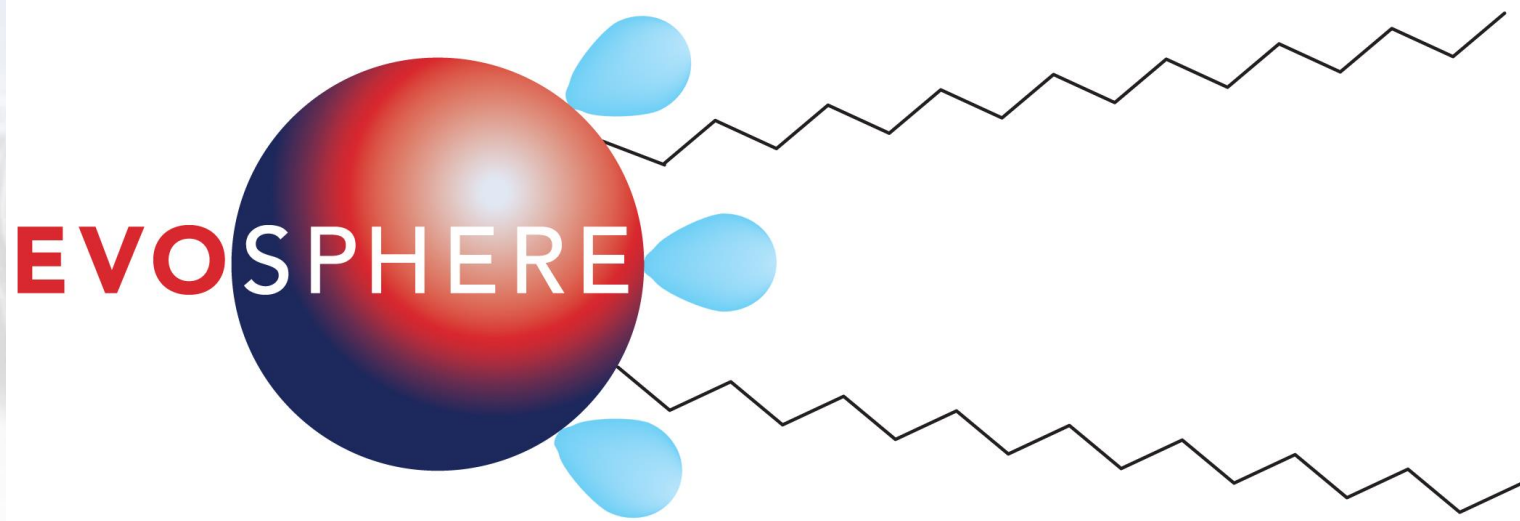
# Isomers



**EVOSPHERE**

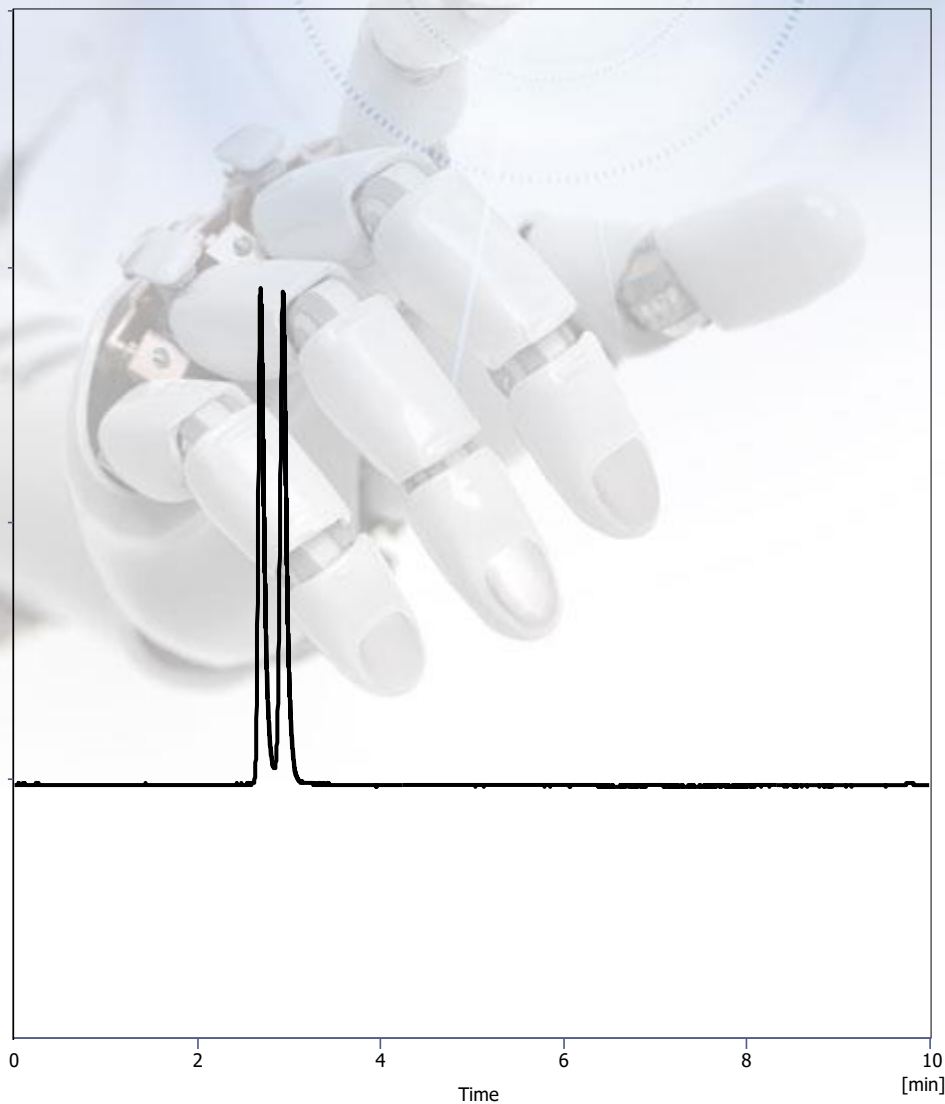


# Evosphere AQUA





# Iso-ascorbic and Ascorbic Acids



- Column : **Evosphere AQUA 150x4.6 3um**
  - p/n : **EVAQ-050703**
  - Mobile Phase:  
**0.1% Formic Acid in Water**
  - Flow : **1.0 ml/min**
  - Temp : **20°C**
  - $\lambda$  : **254nm**
1. **Iso-ascorbic Acid**
  2. **Ascorbic Acid**



## Fully QC tested

- Individual QC testing
  - Not just Batch tested
- Individual Certificate in each box
- Measure of Efficiency and Peak shape
- Reliable
- Reproducible
- Robust



www.fortis-technologies.com  
www.hplccolumncare.com

## QUALITY ASSURANCE

Phase: 5um EvoSphere C18/PFP

Part Number: C18/PFP-050905

Column Dimension: 250x4.6mm

Batch Number: EV18PFP5-707

Column Backpressure: 90 Bar

Mobile Phase: 60:40 ACN:Water

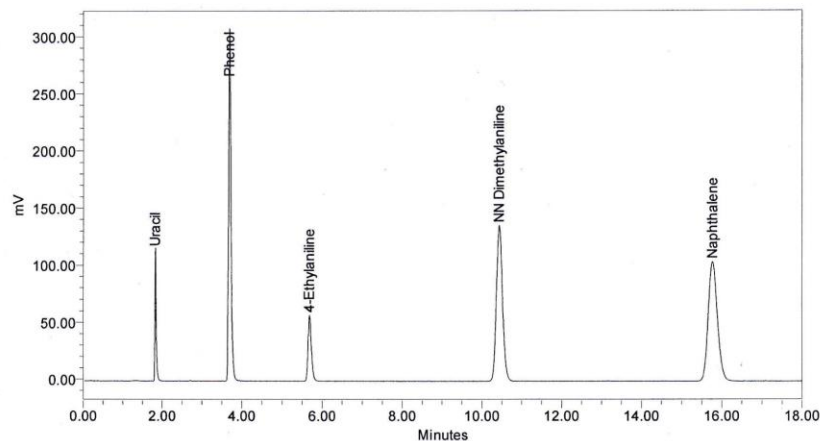
Flow: 1.2 ml/min

Sample Volume: 5ul

Wavelength: 254nm

Temperature: 20C

Serial Number: D10220906-1



**Column Performance**

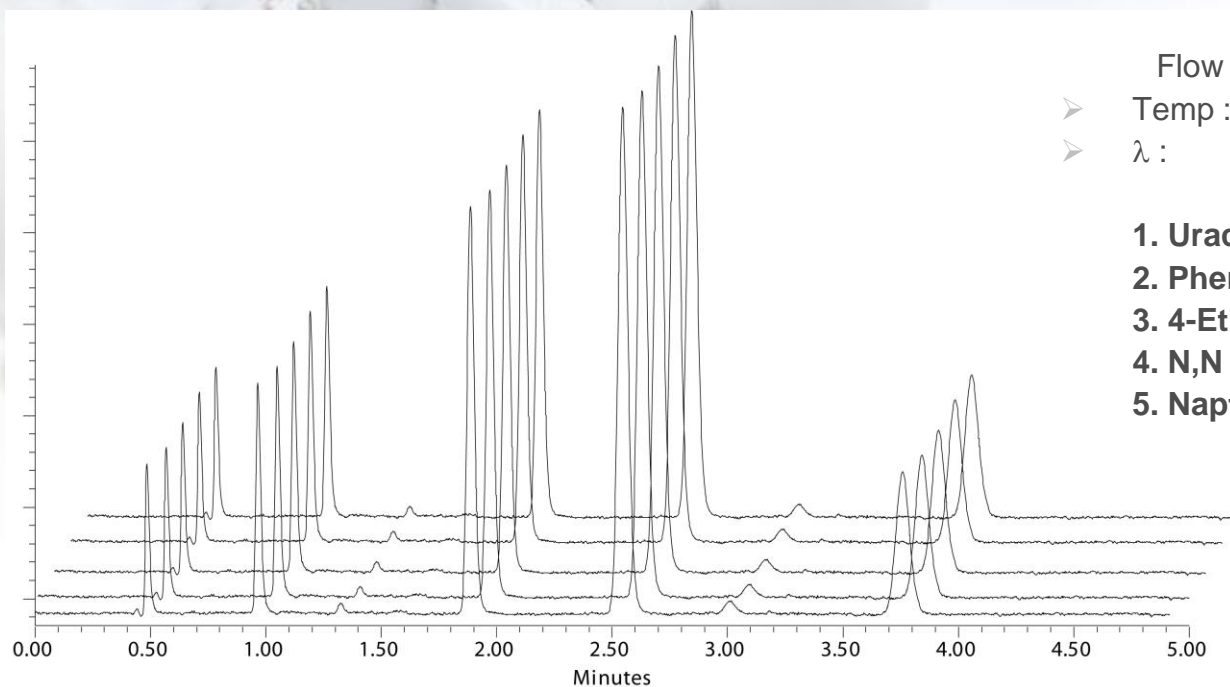
	Name	RT (min)	Capacity	Resolution	Symmetry	Plate Count
1	Uracil	1.837	0.007		1.53	20772
2	Phenol	3.697	1.026	22.199	1.37	19779
3	4-Ethylaniline	5.691	2.118	15.006	1.22	23605
4	NN Dimethylaniline	10.438	4.720	21.502	1.12	22561
5	Naphthalene	15.773	7.643	15.022	1.13	23095

# Reproducibility Guaranteed

- Column : **Evosphere C18/PFP 100x4.6mm 3 $\mu$**
- p/n : **EVO18FP-050905**
- Mobile Phase:  
**A – 60:40 ACN : H<sub>2</sub>O**

- Flow : **1ml/min**
- Temp : **20°C**
- $\lambda$  : **254nm**

- 1. Uracil**
- 2. Phenol**
- 3. 4-Ethylanaline**
- 4. N,N Dimethylanaline**
- 5. Napthalene**



# Hardware



# Product Packaging





# **THE EVOLUTION OF HPLC COLUMNS**

