

LAUNCHES

UV/HPLC GRADE ACETONITRILE

Orochem's UV/HPLC grade Acetonitrile is manufactured to the highest specifications to ensure the integrity of your data, maximize sensitivity in your assay and to prolong the life of your equipment. With Orochem's HPLC Grade Solvents, scientists can expect a consistent, high purity product which is necessary to create reliable Chromatography methods and protocols.

Orochem HPLC solvents are lot-to-lot analyzed to meet the high quality specifications for HPLC separations. We control the low levels of peak impurities, residue, water, acidity and alkalinity, the high chemical purity and the UV transmittance; all of which are critical parameters for a successful HPLC application



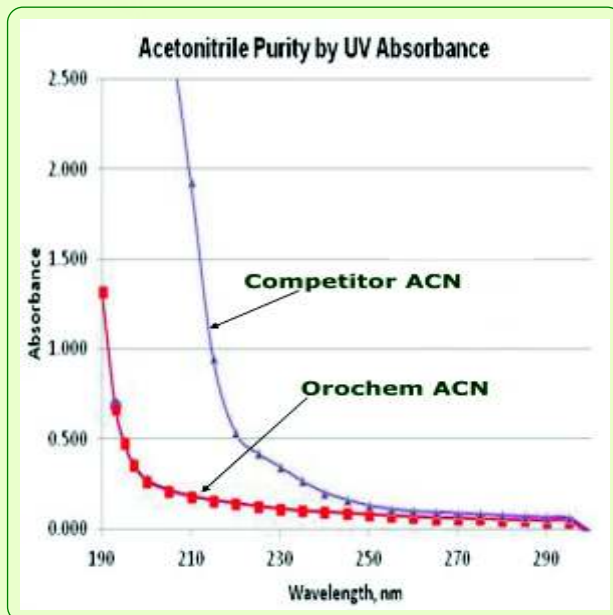
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LITER
PACK

FEATURES:

- Stringent gradient elution tests with UV/Vis and fluorescence detection.
- Interference-free, low baseline noise at 190 nm and 240 nm.
- Prefiltered through 0.2 um filters to extend column life.
- Exceeds the specification for ACS solvent suitability for liquid chromatography.
- Tested for polycyclic aromatic hydrocarbons (PAH).

Figure shows that UV spectra of HPLC-grade acetonitrile from Orochem is better, especially in short wavelength range (300-190nm). This is because Orochem purification process eliminates difficult to remove impurities and levels in acetonitrile to offer high quality HPLC grade ACN for regular use.

Purity Comparison Graph for Acetonitrile



Manufactured in USA

Available with Orochem India Pvt. Ltd. & its Distributors

Contact

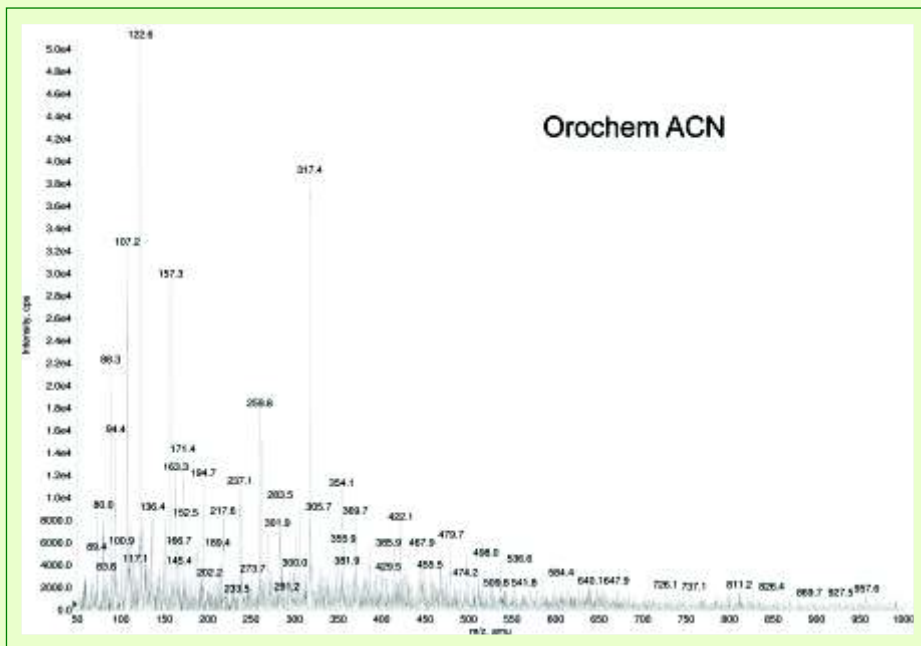
ORO CHEM INDIA PVT. LTD.

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ACETONTRILE UV/HPLC GRADE



Analysis of impurities in Acetonitrile in OTHER brand and OROCHEM brand

Contamination was detected by mass spectrometry. The Purity of other brand Acetonitrile was similar to that of Orochem Acetonitrile, other brand Acetonitrile contained additional contamination peaks at low intensities.

SPECIFICATIONS FOR ACETONITRILE

Product Specification	Limits	Typical Lot analysis
UV absorbance@		
400-254nm	0.005max	0.000
220nm	0.01max	0.000
200nm	0.05max	0.010
UV cut off, nm	190max	<190
Density 25C (g/ml)	0.775-0.780	0.778
Fluorescence Trace Impurities		
at 450nm emission	0.3 ppb max	0.03ppb
At emission maximum For Impurities	1ppb max	0.2ppb
Fluorescence Detection(PAH)	0.5ppb max	< 0.5ppb
Carbonyl Compounds(As Acetone)	25ppbmax	10ppb
Assay(by GC corrected for Water)	99.9%min	99.95%
Residue After Evaporation	1ppm max	<1ppm
Color(APHA)	10 max	3
Appearance	Clear	Clear
Titration Acid, max	0.0008 meq/g	0.0007meq/g
Titration Base, max	0.0007meq/g	<0.0001meq/g
Water, max	100 ppm	90 ppm
Gradient Elution@		
254nm	0.0005max	Pass
210nm	0.002max	Pass
Identification(1R/GC)	To Conform	Pass
Filtered to 0.2um max	Per lot	Pass

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