Biosolve

Because you need Quality

Biosolve ULC/MS Products raise the quality standards for your valid high resolution gradient elution UHPLC-MS & UHPLC-UV applications

- Water ULC/MS grade purified under 11 monitored steps.
- High UV & Fluorescence transmittance
- Low level of ionic background
- TOC < 10 ppb
- Resistivity > 18.2 MΩ*cm

Water	232141
Test Description	**Specifications**
Clear colorless liquid	Complying
Color (APHA Pt-Co)	max. 5
Resistivity (at manuf.)	min. 18.2mho/cm
Residue after evaporation	max. 0.0001%w/w
Acidity (as Acetic acid)	max. 0.0002%
Alkalinity (as Ammonia)	max. 0.00005%
TOC	max. 10ppb
UHPLC/MS ESI/APCI+ (as Reserpine)	max. 5ppb
UHPLC/MS ESI/APCI- (as Reserpine)	max. 20ppb
UV Abs. 200 (Vs. air)	max. 0.001AU
UV Abs. 210 (Vs. air)	max. 0.001AU
UV Abs. 230 (Vs. air)	max. 0.0005AU
H.Peak by PDAD 210-400nm	max. 0.001AU
Grad. elution H.Peak at 210nm	max. 0.001AU
Grad. elution drift at 210nm	max. 0.008AU
Grad. elution H.Peak at 254nm	max. 0.0005AU
Grad. elution drift at 254nm	max. 0.005AU
Fluorescence 254nm (as Quinine)	max. 0.3ppb
Fluorescence 365nm (as Quinine)	max. 0.3ppb
Filter test	Complying
Silver (Ag)	max. 50ppb
Aluminum (Al)	max. 20ppb
Barium (Ba)	max. 20ppb
Bismuth (Bi)	max. 20ppb
Calcium (Ca)	max. 50ppb
Cadmium (Cd)	max. 30ppb
Cobalt (Co)	max. 20ppb
Chromium (Cr)	max. 20ppb
Iron (Fe)	max. 30ppb
Potassium (K)	max. 50ppb
Lithium (Li)	max. 30ppb
Magnesium (Mg)	max. 20ppb
Manganese (Mn)	max. 20ppb
Molybdenum (Mo)	max. 50ppb
Sodium (Na)	max. 50ppb
Nickel (Ni)	max. 20ppb
Lead (Pb)	max. 20ppb
Tin (Sn)	max. 50ppb
Strontium (Sr)	max. 30ppb
Zinc (Zn)	max. 50ppb
Nitrate (NO3)	max. 0.1ppm
Subs. reducing KMnO4	Complying

Methanol	136841
Test Description	**Specifications**
Clear colorless liquid	Complying
Color (APHA Pt-Co)	max. 5
Assay (GC on anhydrous basis)	min. 99.98%
Residue after evaporation	max. 0.0001%w/w
Water (KF)	max. 0.03%w/w
Acidity (as Acetic acid)	max. 0.002%
Alkalinity (as Ammonia)	max. 0.0001%
UHPLC/MS ESI/APCI+ (as Reserpine)	max. 6ppb
UHPLC/MS ESI/APCI- (as Reserpine)	max. 20ppb
H.Peak by PDAD 220-400nm	max. 0.004AU
Grad. elution H.Peak at 220nm	max. 0.004AU
Grad. elution drift at 220nm	max. 0.05AU
Grad. elution H.Peak at 235nm	max. 0.002AU
Grad. elution drift at 235nm	max. 0.015AU
Fluorescence 254nm (as Quinine)	max. 0.5ppb
Fluorescence 365nm (as Quinine)	max. 0.3ppb
UV Trans. 210nm	min. 40%
UV Trans. 220nm	min. 65%
UV Trans. 230nm	min. 80%
UV Trans. 260nm	min. 98%
Silver (Ag)	max. 50ppb
Aluminum (Al)	max. 20ppb
Barium (Ba)	max. 50ppb
Bismuth (Bi)	max. 50ppb
Calcium (Ca)	max. 50ppb
Cadmium (Cd)	max. 50ppb
Cobalt (Co)	max. 20ppb
Chromium (Cr)	max. 20ppb
Copper (Cu)	max. 20ppb
Iron (Fe)	max. 20ppb
Potassium (K)	max. 50ppb
Lithium (Li)	max. 50ppb
Magnesium (Mg)	max. 20ppb
Manganese (Mn)	max. 20ppb
Molybdenum (Mo)	max. 50ppb
Sodium (Na)	max. 50ppb
Nickel (Ni)	max. 20ppb
Lead (Pb)	max. 20ppb
Tin (Sn)	max. 50ppb
Strontium (Sr)	max. 50ppb
Zinc (Zn)	max. 50ppb

Our bottles are selected and treated to minimize ion release from the internal glass surface.

NEW

Ethanol absolute	052541
Test Description	**Specifications**
Clear colorless liquid	Complying
Color (APHA Pt-Co)	max. 10
Assay (GC on anhydrous basis)	min. 99.95%
Residue after evaporation	max. 0.0001%w/w
Acidity (as Acetic acid)	max. 0.002%
Alkalinity (as Ammonia)	max. 0.0005%
UHPLC/MS ESI/APCI+ (as Reserpine)	max. 10ppb
UHPLC/MS ESI/APCI- (as Reserpine)	max. 20ppb
H.Peak by PDAD 235-400nm	max. 0.002AU
Grad. elution H.Peak at 235nm	max. 0.002AU
Grad. elution drift at 235nm	max. 0.010AU
Grad. elution H.Peak at 254nm	max. 0.001AU
Grad. elution drift at 254nm	max. 0.005AU
Fluorescence 254nm (as Quinine)	max. 1ppb
Fluorescence 365nm (as Quinine)	max. 1ppb
UV Trans. 210nm	min. 40%
UV Trans. 225nm	min. 60%
UV Trans. 240nm	min. 85%
UV Trans. 260nm	min. 98%
Water (KF)	max. 0.1%w/w
Silver (Ag)	max. 50ppb
Aluminum (Al)	max. 20ppb
Barium (Ba)	max. 50ppb
Bismuth (Bi)	max. 50ppb
Calcium (Ca)	max. 50ppb
Cadmium (Cd)	max. 50ppb
Cobalt (Co)	max. 20ppb
Chromium (Cr)	max. 20ppb
Iron (Fe)	max. 20ppb
Potassium (K)	max. 50ppb
Lithium (Li)	max. 50ppb
Magnesium (Mg)	max. 20ppb
Manganese (Mn)	max. 20ppb
Molybdenum (Mo)	max. 50ppb
Sodium (Na)	max. 50ppb
Nickel (Ni)	max. 20ppb
Lead (Pb)	max. 20ppb
Tin (Sn)	max. 50ppb
Strontium (Sr)	max. 50ppb
Zinc (Zn)	max. 50ppb

2-Propanol	162641
Test Description	**Specifications**
Clear colorless liquid	Complying
Color (APHA Pt-Co)	max. 5
Assay (GC on anhydrous basis)	min. 99.95%
Residue after evaporation	max. 0.0001%w/w
Water (KF)	max. 0.05%w/w
Acidity (as Acetic acid)	max. 0.001%
Alkalinity (as Ammonia)	max. 0.0001%
UHPLC/MS ESI/APCI+ (as Reserpine)	max. 10ppb
UHPLC/MS ESI/APCI- (as Reserpine)	max. 20ppb
H.Peak by PDAD 235-400nm	max. 0.002AU
Grad. elution H.Peak at 235nm	max. 0.001AU
Grad. elution drift at 235nm	max. 0.010AU
Grad. elution H.Peak at 254nm	max. 0.001AU
Grad. elution drift at 254nm	max. 0.005AU
Fluorescence 254nm (as Quinine)	max. 0.5ppb
Fluorescence 365nm (as Quinine)	max. 0.5ppb
UV Trans. 220nm	min. 80%
UV Trans. 230nm	min. 90%
UV Trans. 250nm	min. 99%
Silver (Ag)	max. 50ppb
Aluminum (Al)	max. 20ppb
Barium (Ba)	max. 50ppb
Bismuth (Bi)	max. 50ppb
Calcium (Ca)	max. 50ppb
Cadmium (Cd)	max. 50ppb
Cobalt (Co)	max. 20ppb
Chromium (Cr)	max. 20ppb
Iron (Fe)	max. 20ppb
Potassium (K)	max. 50ppb
Lithium (Li)	max. 50ppb
Magnesium (Mg)	max. 20ppb
Manganese (Mn)	max. 20ppb
Molybdenum (Mo)	max. 50ppb
Sodium (Na)	max. 50ppb
Nickel (Ni)	max. 20ppb
Lead (Pb)	max. 20ppb
Tin (Sn)	max. 50ppb
Strontium (Sr)	max. 50ppb
Zinc (Zn)	max. 50ppb

Ethyl acetate 054041

Test Description	Specifications
Clear colorless liquid	Complying
Acidity (as Acetic acid)	max. 0.002%
Alkalinity (as Ammonia)	max. 0.0005%
Color (APHA Pt-Co)	max. 10
Assay (GC on anhydrous basis)	min. 99.9%
Residue after evaporation	max. 0.0003%w/w
Water (KF)	max. 0.02%w/w
Fluorescence 254nm (as Quinine)	max. 2.0ppb
Fluorescence 365nm (as Quinine)	max. 1.0ppb
UHPLC/MS ESI/APCI+ (as Reserpine)	max. 10ppb
UHPLC/MS ESI/APCI- (as Reserpine)	max. 20ppb
UV Trans. 255nm	min. 25%
UV Trans. 260nm	min. 80%
UV Trans. >275nm	min. 98%
UV Abs. 255nm	max. 0.60AU
UV Abs. 260nm	max. 0.10AU
UV Abs. 275nm	max. 0.01AU
Silver (Ag)	max. 50ppb
Aluminum (Al)	max. 20ppb
Barium (Ba)	max. 50ppb
Bismuth (Bi)	max. 50ppb
Calcium (Ca)	max. 50ppb
Cadmium (Cd)	max. 50ppb
Cobalt (Co)	max. 20ppb
Chromium (Cr)	max. 20ppb
Iron (Fe)	max. 20ppb
Potassium (K)	max. 50ppb
Lithium (Li)	max. 50ppb
Magnesium (Mg)	max. 20ppb
Manganese (Mn)	max. 20ppb
Molybdenum (Mo)	max. 50ppb
Sodium (Na)	max. 50ppb
Nickel (Ni)	max. 20ppb
Lead (Pb)	max. 20ppb
Tin (Sn)	max. 50ppb
Strontium (Sr)	max. 50ppb
Zinc (Zn)	max. 50ppb

Triethylamine 204141

Test Description	Specifications
Clear colorless liquid	Complying
Assay (GC on anhydrous basis)	min. 99.8%
UV Trans. 250nm (0.1M)	min. 40%
UV Trans. 260nm (0.1M)	min. 87%
UV Trans. 270nm (0.1M)	min. 96%
UV Trans. 280nm (0.1M)	min. 98%
Grad. elution H.Peak at 254nm	max. 0.005AU
Water (KF)	max. 0.05%w/w
UHPLC/MS ESI/APCI+ (as Reserpine)	max. 20ppb
UHPLC/MS ESI/APCI- (as Reserpine)	max. 50ppb
Aluminum (Al)	max. 0.2ppm
Calcium (Ca)	max. 0.5ppm
Iron (Fe)	max. 0.1ppm
Potassium (K)	max. 0.5ppm
Magnesium (Mg)	max. 0.1ppm
Sodium (Na)	max. 0.5ppm
Residue after evaporation	max. 0.005%w/w

Tetrahydrofuran (unstabilized) 202241

Test Description	Specifications
Clear colorless liquid	Complying
Color (APHA Pt-Co)	max. 10
Assay (GC on anhydrous basis)	min. 99.9%
Acidity (as Acetic acid)	max. 0.0020%
Alkalinity (as Ammonia)	max. 0.0005%
Peroxides (as H202)	max. 0.01%
UHPLC/MS ESI/APCI+ (as Reserpine)	max. 20ppb
UHPLC/MS ESI/APCI- (as Reserpine)	max. 50ppb
Water (KF)	max. 0.02%w/w
Fluorescence 254nm (as Quinine)	max. 1ppb
Fluorescence 365nm (as Quinine)	max. 1ppb
Grad. elution H.Peak at 254nm	max. 0.01AU
Grad. elution H.Peak at 280nm	max. 0.003AU
UV Trans. 215nm	min. 30%
UV Trans. 235nm	min. 40%
UV Trans. 245nm	min. 55%
UV Trans. 250nm	min. 65%
UV Trans. 265nm	min. 80%
UV Trans. 275nm	min. 90%
UV Trans. 280nm	min. 95%
UV Trans. 310nm	min. 99%
Residue after evaporation	max. 0.0001%w/w
Silver (Ag)	max. 50ppb
Aluminum (Al)	max. 20ppb
Barium (Ba)	max. 50ppb
Bismuth (Bi)	max. 50ppb
Calcium (Ca)	max. 50ppb
Cadmium (Cd)	max. 50ppb
Cobalt (Co)	max. 20ppb
Chromium (Cr)	max. 20ppb
Iron (Fe)	max. 20ppb
Potassium (K)	max. 50ppb
Lithium (Li)	max. 50ppb
Magnesium (Mg)	max. 20ppb
Manganese (Mn)	max. 20ppb
Molybdenum (Mo)	max. 50ppb
Sodium (Na)	max. 50ppb
Nickel (Ni)	max. 20ppb
Lead (Pb)	max. 20ppb
Tin (Sn)	max. 50ppb
Strontium (Sr)	max. 50ppb
Zinc (Zn)	max. 50ppb

Formulations in Acetonitrile ULC/MS

Product	Acetic acid 0.1% in Acetonitrile	Formic acid 0.1% in Acetonitrile	Trifluoroacetic acid 0.1% in Acetonitrile
Cat. Number	019141	019341	019541
Test Description	**Specifications**	**Specifications**	**Specifications**
Assay (T)	0.095-0.105%v/v	0.095-0.105%v/v	0.095-0.105%v/v
Water (KF)	max. 0.02%w/w	max. 0.02%w/w	max. 0.02%w/w
Residue after evaporation	max. 0.0001%w/w	max. 0.0001%w/w	max. 0.0001%w/w
UHPLC/MS/ESI/APCI+ (as Reserpine)	max. 10ppb	max. 10ppb	max. 20ppb
Grad. elution H.Peak at 254nm	max. 0.002AU	max. 0.002AU	max. 0.002AU
Grad. elution drift at 254nm	max. 0.010AU	max. 0.030AU	max. 0.030AU
Fluorescence 254nm (as Quinine)	max. 0.5ppb	max. 0.5ppb	max. 0.5ppb
Fluorescence 365nm (as Quinine)	max. 0.5ppb	max. 0.5ppb	max. 0.5ppb
UV Trans. 210nm	min. 20%	min. 5%	
UV Trans. 230nm	min. 50%	min. 15%	min. 50%
UV Trans. 254nm	min. 98%	min. 90%	min. 90%
Aluminum (Al)	max. 30ppb	max. 30ppb	max. 30ppb
Calcium (Ca)	max. 100ppb	max. 100ppb	max. 100ppb
Iron (Fe)	max. 50ppb	max. 50ppb	max. 50ppb
Potassium (K)	max. 100ppb	max. 100ppb	max. 100ppb
Magnesium (Mg)	max. 30ppb	max. 30ppb	max. 30ppb
Sodium (Na)	max. 100ppb	max. 100ppb	max. 100ppb

Ethyl acetate 054041

Test Description	Specifications
Clear colorless liquid	Complying
Acidity (as Acetic acid)	max. 0.002%
Alkalinity (as Ammonia)	max. 0.0005%
Color (APHA Pt-Co)	max. 10
Assay (GC on anhydrous basis)	min. 99.9%
Residue after evaporation	max. 0.0003%w/w
Water (KF)	max. 0.02%w/w
Fluorescence 254nm (as Quinine)	max. 2.0ppb
Fluorescence 365nm (as Quinine)	max. 1.0ppb
UHPLC/MS ESI/APCI+ (as Reserpine)	max. 10ppb
UHPLC/MS ESI/APCI- (as Reserpine)	max. 20ppb
UV Trans. 255nm	min. 25%
UV Trans. 260nm	min. 80%
UV Trans. >275nm	min. 98%
UV Abs. 255nm	max. 0.60AU
UV Abs. 260nm	max. 0.10AU
UV Abs. 275nm	max. 0.01AU
Silver (Ag)	max. 50ppb
Aluminum (Al)	max. 20ppb
Barium (Ba)	max. 50ppb
Bismuth (Bi)	max. 50ppb
Calcium (Ca)	max. 50ppb
Cadmium (Cd)	max. 50ppb
Cobalt (Co)	max. 20ppb
Chromium (Cr)	max. 20ppb
Iron (Fe)	max. 20ppb
Potassium (K)	max. 50ppb
Lithium (Li)	max. 50ppb
Magnesium (Mg)	max. 20ppb
Manganese (Mn)	max. 20ppb
Molybdenum (Mo)	max. 50ppb
Sodium (Na)	max. 50ppb
Nickel (Ni)	max. 20ppb
Lead (Pb)	max. 20ppb
Tin (Sn)	max. 50ppb
Strontium (Sr)	max. 50ppb
Zinc (Zn)	max. 50ppb

Triethylamine 204141

Test Description	Specifications
Clear colorless liquid	Complying
Assay (GC on anhydrous basis)	min. 99.8%
UV Trans. 250nm (0.1M)	min. 40%
UV Trans. 260nm (0.1M)	min. 87%
UV Trans. 270nm (0.1M)	min. 96%
UV Trans. 280nm (0.1M)	min. 98%
Grad. elution H.Peak at 254nm	max. 0.005AU
Water (KF)	max. 0.05%w/w
UHPLC/MS ESI/APCI+ (as Reserpine)	max. 20ppb
UHPLC/MS ESI/APCI- (as Reserpine)	max. 50ppb
Aluminum (Al)	max. 0.2ppm
Calcium (Ca)	max. 0.5ppm
Iron (Fe)	max. 0.1ppm
Potassium (K)	max. 0.5ppm
Magnesium (Mg)	max. 0.1ppm
Sodium (Na)	max. 0.5ppm
Residue after evaporation	max. 0.005%w/w

Tetrahydrofuran (unstabilized) 202241

Test Description	Specifications
Clear colorless liquid	Complying
Color (APHA Pt-Co)	max. 10
Assay (GC on anhydrous basis)	min. 99.9%
Acidity (as Acetic acid)	max. 0.0020%
Alkalinity (as Ammonia)	max. 0.0005%
Peroxides (as H202)	max. 0.01%
UHPLC/MS ESI/APCI+ (as Reserpine)	max. 20ppb
UHPLC/MS ESI/APCI- (as Reserpine)	max. 50ppb
Water (KF)	max. 0.02%w/w
Fluorescence 254nm (as Quinine)	max. 1ppb
Fluorescence 365nm (as Quinine)	max. 1ppb
Grad. elution H.Peak at 254nm	max. 0.01AU
Grad. elution H.Peak at 280nm	max. 0.003AU
UV Trans. 215nm	min. 30%
UV Trans. 235nm	min. 40%
UV Trans. 245nm	min. 55%
UV Trans. 250nm	min. 65%
UV Trans. 265nm	min. 80%
UV Trans. 275nm	min. 90%
UV Trans. 280nm	min. 95%
UV Trans. 310nm	min. 99%
Residue after evaporation	max. 0.0001%w/w
Silver (Ag)	max. 50ppb
Aluminum (Al)	max. 20ppb
Barium (Ba)	max. 50ppb
Bismuth (Bi)	max. 50ppb
Calcium (Ca)	max. 50ppb
Cadmium (Cd)	max. 50ppb
Cobalt (Co)	max. 20ppb
Chromium (Cr)	max. 20ppb
Iron (Fe)	max. 20ppb
Potassium (K)	max. 50ppb
Lithium (Li)	max. 50ppb
Magnesium (Mg)	max. 20ppb
Manganese (Mn)	max. 20ppb
Molybdenum (Mo)	max. 50ppb
Sodium (Na)	max. 50ppb
Nickel (Ni)	max. 20ppb
Lead (Pb)	max. 20ppb
Tin (Sn)	max. 50ppb
Strontium (Sr)	max. 50ppb
Zinc (Zn)	max. 50ppb

Formulations in Acetonitrile ULC/MS

Product	Acetic acid 0.1% in Acetonitrile	Formic acid 0.1% in Acetonitrile	Trifluoroacetic acid 0.1% in Acetonitrile
Cat. Number	019141	019341	019541
Test Description	**Specifications**	**Specifications**	**Specifications**
Assay (T)	0.095-0.105%v/v	0.095-0.105%v/v	0.095-0.105%v/v
Water (KF)	max. 0.02%w/w	max. 0.02%w/w	max. 0.02%w/w
Residue after evaporation	max. 0.0001%w/w	max. 0.0001%w/w	max. 0.0001%w/w
UHPLC/MS/ESI/APCI+ (as Reserpine)	max. 10ppb	max. 10ppb	max. 20ppb
Grad. elution H.Peak at 254nm	max. 0.002AU	max. 0.002AU	max. 0.002AU
Grad. elution drift at 254nm	max. 0.010AU	max. 0.030AU	max. 0.030AU
Fluorescence 254nm (as Quinine)	max. 0.5ppb	max. 0.5ppb	max. 0.5ppb
Fluorescence 365nm (as Quinine)	max. 0.5ppb	max. 0.5ppb	max. 0.5ppb
UV Trans. 210nm	min. 20%	min. 5%	
UV Trans. 230nm	min. 50%	min. 15%	min. 50%
UV Trans. 254nm	min. 98%	min. 90%	min. 90%
Aluminum (Al)	max. 30ppb	max. 30ppb	max. 30ppb
Calcium (Ca)	max. 100ppb	max. 100ppb	max. 100ppb
Iron (Fe)	max. 50ppb	max. 50ppb	max. 50ppb
Potassium (K)	max. 100ppb	max. 100ppb	max. 100ppb
Magnesium (Mg)	max. 30ppb	max. 30ppb	max. 30ppb
Sodium (Na)	max. 100ppb	max. 100ppb	max. 100ppb

Formulations in Water ULC/MS

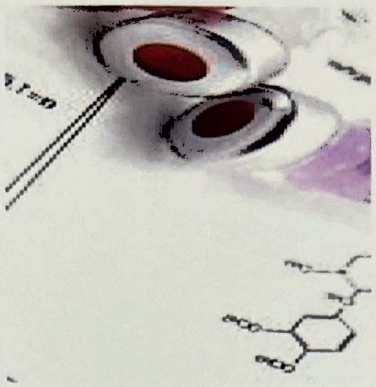
Product	Acetic Acid 0.1% in Water	Formic acid 0.1% in Water	Trifluoroacetic acid 0.1% in Water
Cat. Number	232341	232441	232741
Test Description	**Specifications**	**Specifications**	**Specifications**
Assay (T)	0.095-0.105%v/v	0.095-0.105%v/v	0.095-0.105%v/v
Residue after evaporation	max. 0.0001%w/w	max. 0.0001%w/w	max. 0.0001%w/w
UHPLC/MS ESI/APCI+ (as Reserpine)	max. 10ppb	max. 10ppb	max. 20ppb
Grad. elution H.Peak at 254nm	max. 0.002AU	max. 0.002AU	max. 0.002AU
Grad. elution drift at 254nm	max. 0.010AU	max. 0.010AU	max. 0.010AU
Fluorescence 254nm (as Quinine)	max. 0.5ppb	max. 0.5ppb	max. 0.5ppb
Fluorescence 365nm (as Quinine)	max. 0.5ppb	max. 0.5ppb	max. 0.5ppb
UV Trans. 210nm	min. 20%	min. 5%	min. 25%
UV Trans. 230nm	min. 75%	min. 45%	min. 85%
UV Trans. 254nm	min. 99%	min. 99%	min. 99%
Aluminum (Al)	max. 30ppb	max. 30ppb	max. 30ppb
Calcium (Ca)	max. 100ppb	max. 100ppb	max. 100ppb
Iron (Fe)	max. 50ppb	max. 50ppb	max. 50ppb
Potassium (K)	max. 100ppb	max. 100ppb	max. 100ppb
Magnesium (Mg)	max. 30ppb	max. 30ppb	max. 30ppb
Sodium (Na)	max. 100ppb	max. 100ppb	max. 100ppb

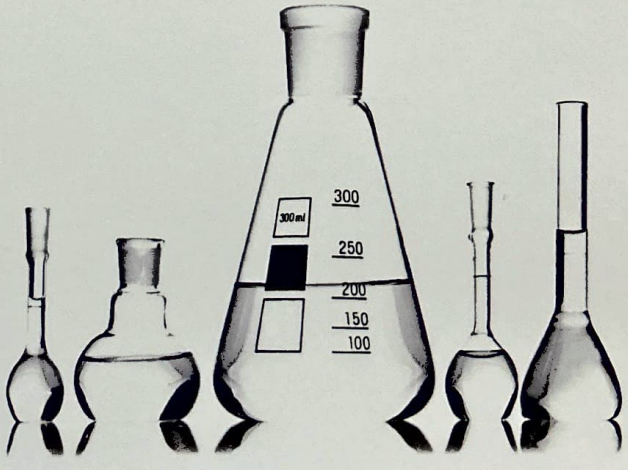
Acids for ULC/MS

Product	Acetic Acid	Formic acid	Trifluoroacetic acid
Cat. Number	010741	069141	202341
Test Description	**Specifications**	**Specifications**	**Specifications**
Assay	min. 99.95%	min. 99.0%	min. 99.95%
Residue after evaporation	max. 0.0005%w/w	max. 0.001%w/w	max. 0.001%w/w
Water (KF)	max. 0.05%w/w	max. 1%w/w	max. 0.02%w/w
UV Trans. 254nm	min. 30%		
UV Trans. 260nm	min. 80%	min. 15%	min. 10%
UV Trans. 265nm	min. 95%		
UV Trans. 270nm		min. 83%	min. 79%
UV Trans. 275nm	min. 98%		
UV Trans. 280nm		min. 90%	min. 93%
UV Trans. 300nm		min. 97%	min. 95%
UV Trans. 320nm		min. 98%	min. 96%
UHPLC/MS ESI/APCI+ (0.1% as Reserpine)	max. 20ppb	max. 20ppb	max. 20ppb
Grad. elution H.Peak at 254nm	max. 0.002AU	max. 0.002AU	max. 0.002AU
Grad. elution drift at 254nm	max. 0.005AU	max. 0.010AU	max. 0.010AU
Fluorescence 254nm (0.1% as Quinine)	max. 0.5ppb	max. 0.5ppb	max. 1ppb
Fluorescence 365nm (0.1% as Quinine)	max. 0.5ppb	max. 0.5ppb	max. 1ppb
Aluminum (Al)	max. 10ppb	max. 0.05ppm	max. 0.05ppm
Calcium (Ca)	max. 50ppb	max. 0.2ppm	max. 0.2ppm
Iron (Fe)	max. 20ppb	max. 0.2ppm	max. 0.3ppm
Potassium (K)	max. 20ppb	max. 0.1ppm	max. 0.1ppm
Magnesium (Mg)	max. 10ppb	max. 0.05ppm	max. 0.05ppm
Sodium (Na)	max. 50ppb	max. 0.5ppm	max. 0.5ppm
Lead (Pb)	max. 20ppb	max. 0.2ppm	max. 0.3ppm

Salts for ULC/MS

Product	Ammonium formate	Ammonium acetate
Cat. Number	019841	012441
Test Description	**Specifications**	**Specifications**
Assay (T dry)	min. 99.0% w/w	min. 99.0% w/w
pH (1M in water)	5.5-7.5	6.0-7.5
UHPLC/MS ESI/APCI+ (0.1% as Reserpine)	max. 30ppb	max. 30ppb
UHPLC/MS ESI/APCI- (0.1% as Reserpine)	max. 50ppb	max. 50ppb
Water (KF)	max. 2%w/w	max. 2%w/w
Grad. elution H.Peak at 254nm	max. 0.002AU	max. 0.002AU
Grad. elution drift at 254nm	max. 0.010AU	max. 0.010AU
Fluorescence 254nm (0.1% as Quinine)	max. 0.5ppb	max. 0.5ppb
Fluorescence 365nm (0.1% as Quinine)	max. 0.5ppb	max. 0.5ppb
UV Trans. 260nm (1M)	min. 98%	min. 96%
UV Trans. 280nm (1M)	min. 98%	min. 98%
Filter test (1M in Water)	Complying	Complying
Solution (1M/Water)	Clear & colorless	Clear & colorless
Chloride (Cl)	max. 0.001%	max. 0.0005%
Sulfate (SO4)	max. 0.005%	max. 0.001%
Aluminum (Al)	max. 1ppm	max. 1ppm
Calcium (Ca)	max. 5ppm	max. 5ppm
Iron (Fe)	max. 1ppm	max. 1ppm
Potassium (K)	max. 5ppm	max. 5ppm
Magnesium (Mg)	max. 1ppm	max. 1ppm
Sodium (Na)	max. 5ppm	max. 5ppm

Determination of volatile organic compounds in water and soils : **"Purge and Trap"** method Methanol Purge & Trap 136828		**Headspace** A range of high boiling point solvents, such as DMA, DMI, DMSO, NMP, specially developed for Headspace analysis of organic volatile impurities.
Solvents for trace organic analysis Pesti-S, Dioxins, Furans & PCB'S, LV-GC SuperTrace® for trace organic analysis		**Hydroquant ™** Product line covers the whole range of volumetric and coulometric reagents for the determination of water by Karl-Fisher method.
Reference Standards for GC Biosolve offers a broad range of highly pure GC reference standards for various GC applications. The majority of our GC reference standards are completely synthetic and typically over 99.9% pure.		**Shuttle drums ULC/MS** Some stainless steel containers are available that can be equipped with dip pipe delivery devices from 25 l to 1500 l volume. **Ask us**



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