

Duksan LC-MS Solvents

Acetonitrile for LC-MS

Methyl Alcohol for LC-MS

Water for LC-MS

Line@thankyou2562 Tel. 02 312 1545-6

Duksan

LC-MS Solvents

Acetonitrile for LC-MS | Methyl Alcohol for LC-MS | Water for LC-MS

As a major manufacturer of high purity solvents in Korea, having a specialties in solvent purification, DUKSAN Pure Chemicals is working hard toward achieving 'High Quality, High Customer-satisfaction' by enforcing strict quality management and new product development.

Since the development of Solvents for HPLC in 1996, DUKSAN has been producing a series of High Purity Solvents for LC-MS Solvent.



- **Trace Mass detectable impurities**
 - : No signals should be greater than 50ppb Reserpine (ESI positive mode) & 50ppb 4-Nitrophenol(ESI negative mode)
 - : Trace metal ions and non-volatile residues
- **UPLC-UV-MS/MS & UPLC-UV-TOF-MS Tested**
- **Filtered through the 0.2um filter**
- **Also tested HPLC gradient suitability, UV/VIS Absorbance, Assay, water & Residue after evaporation**

Certification of Duksan



BGMP INNOBIZ
KOREA
AEO

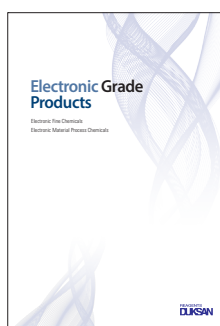
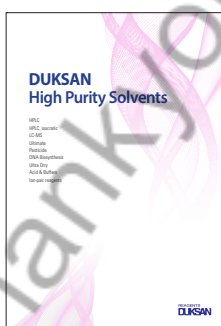
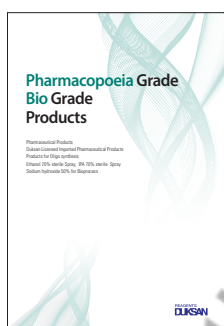
ISO 9001/ISO 14001 Qualified Company
BGMP Qualified Company
Innovation-Business [INNO-BIZ]

Product Specifications

Test	Acetonitrile	Methyl Alcohol	Water
ESI+ mode (as Reserpine)	Max. 50 ppb	Max. 50	Max. 50 ppb
ESI- mode (as 4-Nitrophenol)	Max. 50 ppb	Max. 50	Max. 50 ppb
Assay (by GC)	Min. 99.9 %	Min. 99.9 %	-
Color (APHA)	Max. 10	Max. 10	-
Water	Max. 0.01 %	Max. 0.03 %	-
Residue after evaporation	Max. 1 ppm	Max. 1 ppm	Max. 1 ppm
Titration Acid	Max. 0.008 meq/g	Max. 0.0003 meq/g	-
Titration Base	Max. 0.0006 meq/g	Max. 0.0002 meq/g	-
UV Absorbance 195 nm	Max. 0.15	-	-
UV Absorbance 200 nm	Max. 0.05	-	Max. 0.01
UV Absorbance 205 nm	Max. 0.04	-	-
UV Absorbance 210 nm	Max. 0.02	-	-
UV Absorbance 220 nm	Max. 0.01	Max. 0.25	-
UV Absorbance 230 nm	-	Max. 0.15	-
UV Absorbance 254 nm	Max. 0.005	Max. 0.02	-
UV Absorbance 250-400 nm	-	-	Max. 0.005
UV Absorbance 280 nm	-	Max. 0.01	-
UV Cutoff	Max. 190 nm	-	-
Gradient Elution Test			
- Largest eluted peak(254nm)	Max. 0.5 mAU	Max. 2 mAU	Max. 1 mAU
- Largest eluted peak(210nm)	Max. 2 mAU		Max. 5 mAU
Fluorescence Trace Impurities			
- at 450nm Emission	Max. 0.3 ppb	Max. 0.3 ppb	Max. 0.1 ppb
- at Emission Maximum for impurities	Max. 0.5 ppb	Max. 0.5 ppb	Max. 0.2 ppb
Metal impurities	To pass test	-	-
Aluminium (Al)	Max. 25 ppb	Max. 25 ppb	Max. 25 ppb
Barium (Ba)	Max. 5 ppb	Max. 5 ppb	Max. 5 ppb
Cadmium (Cd)	Max. 5 ppb	Max. 5 ppb	Max. 5 ppb
Calcium (Ca)	Max. 25 ppb	Max. 25 ppb	Max. 25 ppb
Chromium (Cr)	Max. 5 ppb	Max. 5 ppb	Max. 5 ppb
Cobalt (Co)	Max. 5 ppb	Max. 5 ppb	Max. 5 ppb
Copper (Cu)	Max. 5 ppb	Max. 5 ppb	Max. 5 ppb
Iron (Fe)	Max. 5 ppb	Max. 5 ppb	Max. 5 ppb
Heavy Metals (as Pb)	-	Max. 5 ppb	-
Lead (Pb)	Max. 5 ppb	-	Max. 5 ppb
Magnesium (Mg)	Max. 25 ppb	Max. 25 ppb	Max. 25 ppb
Manganese (Mn)	Max. 5 ppb	Max. 5 ppb	Max. 5 ppb
Lithium (Li)	Max. 5 ppb	Max. 5 ppb	Max. 5 ppb
Nickel (Ni)	Max. 5 ppb	Max. 5 ppb	Max. 5 ppb
Potassium (K)	Max. 25 ppb	Max. 25 ppb	Max. 25 ppb
Silver (Ag)	Max. 5 ppb	Max. 5 ppb	Max. 5 ppb
Sodium (Na)	Max. 50 ppb	Max. 50 ppb	Max. 50 ppb
Tin(Sn)	Max. 5 ppb	Max. 5 ppb	Max. 5 ppb
Zinc (Zn)	Max. 5 ppb	-	Max. 5 ppb
Filtered by 0.2um filter			

Other business divisions

- Pharmacopoeia Grade / Bio Grade Products
- High Purity Solvents
- Electronic Grade Products



REAGENTS
DUKSAN DUKSAN
PURE CHEMICALS

HEAD OFFICE & FACTORY

53, Sinwon-ro 133beongil, Danwon-gu, Ansan-si, Gyeonggi-do, Korea TEL : +82-31-495-4055 FAX : +82-31-495-4058

JINCHEON FACTORY

13-37, Sansusandan 1-ro, Deoksan-myeon, Jincheon-gun, Chungcheongbuk-do, Korea TEL : +82-43-536-4055 FAX : +82-43-537-4055

URL Address • <http://www.duksan.kr>
E-mail Address • sales@duksan.kr

