

Price list for resin examinations

To test	by Method	Price
Standard Analysis sets		
Standard analyses	Standard analyses for cationic resins <i>Includes: Optical aspect (microscopically, incl. bead size range and breakage rate); Kinetic properties (Colouring test for fouling degree), total capacities, water retention, basic tariff</i>	372,00 €
Standard analyses	Standard analyses for anionic resins <i>Includes: Optical aspect (microscopically, incl. bead size range and breakage rate); Kinetic properties (Colouring test for fouling degree and crosscolouring test for crosscontamination), total capacities, water retention, basic tariff</i>	453,00 €
Standard analyses	Standard analyses for Mixed-bed-sample <i>Includes: Separation of CAT and AN as well as individual analyses for both fractions (Optical aspect (microscopically, incl. bead size range and breakage rate); Kinetic properties (Colouring test for fouling degree and crosscolouring test for crosscontamination (AN)), total capacities, water retention, basic tariff)</i>	938,00 €
Standard analyses	Standard Analysis for Chelating resins (IDA/AMP) <i>Includes: Optical aspect (microscopically, incl. bead size range and breakage rate); Kinetic properties (Colouring test for fouling degree), total capacities, water retention, basic tariff</i>	399,00 €
Additional Analyses – We would be pleased to advise you on the compilation!		
Microscopical analyses		
Optical aspect	Microscopically <i>eg. after Cleaning (incl. bead size range; breakage rate)</i>	87,00 €
Bead size distribution	Picture analysis <i>to be ordered only in combination with microscopical examination (Optical aspect) resp. in combination with a standard analysis</i>	121,00 €
Total capacities by titration		
	<i>eg. after cleaning</i>	
Total capacities	Weakly acidic, titration	182,00 €
Total capacities	Strongly acidic, titration	182,00 €
Total capacities	Strongly- or dual basic, titration	230,00 €
Total capacities	IDA/AMP selective resins	209,00 €
Regeneration level		
Regeneration level	Strongly acidic, as delivered, titration <i>supposing, that the sample was taken after regeneration and rinse</i>	74,00 €
Regeneration level	Strongly- or dual basic, as delivered, titration <i>supposing, that the sample was taken after regeneration and rinse</i>	124,00 €
Operating Capacity by column test		
Operating Capacity	MB <i>The mixed bed sample has to be regenerated. OC until 1/5/10 µS/cm</i>	172,00 €
Operating Capacity	WAC, SAC, W/DBA oder SBA <i>OC from 3 cycles with constant regeneration (weak/dual base: constant ion offer); Rinse water consumption</i>	281,00 €
Kinetic properties		
Kinetic properties	Crosscolouring <i>eg. after cleaning</i>	33,00 €

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Kinetik properties	Colouring after purification <i>incl. resin cleaning</i>	68,00 €
Microbiological Examinations		
Microbiological Contamination	Colony forming Units <i>Bacteria, Yeast and Molds with culture media-coated dip-slide</i>	82,00 €
Microbiological Contamination	Protein Content <i>identification of dead biological material</i>	82,00 €
Contents		
Contents in resin or eluate	COD photometric <i>in the cleaning supernatant (including the resin cleaning)</i>	55,00 €
Contents in resin or eluate	Silica (SiO ₂) photometric <i>in the cleaning supernatant (including the resin cleaning)</i>	66,00 €
Contents in resin or eluate	Fe photometric <i>in the cleaning supernatant (including the resin cleaning)</i>	59,00 €
Contents in resin or eluate	ICP-Screening <i>in the cleaning supernatant (including the resin cleaning)</i>	230,00 €
Mechanical parameters		
Mechanical stability	Destruction force and Elasticity	121,00 €
Mechanical stability	Osmotic Shock Test	191,00 €
Retain samples		
Retain Sample Service	Storage of a retain sample for 1 year <i>Storage of 2 ... 5 L resin as a retain sample under controlled storage conditions. The retain sample can be used as a meaningful reference or as evidence of the condition on delivery in future analyses of resin from on-going plant operation.</i>	30,00 €
Retain Sample Service	Storage of a retain sample for 5 years <i>Storage of 2 ... 5 L resin as a retain sample under controlled storage conditions.</i>	120,00 €

Results are usually available within about 3...5 working days. Larger amounts of samples or special treatments may need a little more time.

For each sample, a few hundred millilitres are sufficient. Please make sure that the sample containers (preferably wide neck jars) are air- and watertight, enabling us to determine the most accurate results possible.

For Operating Capacity tests and mixed bed samples we require a minimum resin quantity of 1 litre.

The basic tariff of 70 € will be accounted once per sample.

An express sample processing (24h/48h depending on analysis extent) is possible upon agreement. Therefore we charge a premium of 20..25 % on the total fee.

All prices are in Euro excl. VAT and apply per sample. Payment terms that exceed 30 days will increase the total amount by 2 % for each 30 days prolongation.