

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>	515,00 €
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>	626,00 €
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>	1 297,00 €
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>	552,00 €
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>	120,00 €
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>	167,00 €
Total capacities by titration		
	<i>eg. after cleaning</i>	
Total capacities	Weakly acidic, titration	253,00 €
Total capacities	Strongly acidic, titration	253,00 €
Total capacities	Strongly- or dual basic, titration	319,00 €
Total capacities	IDA/AMP selective resins	290,00 €
Regeneration level		
Regeneration level	Strongly acidic, as delivered, titration <i>supposing, that the sample was taken after regeneration and rinse</i>	101,00 €
Regeneration level	Strongly- or dual basic, as delivered, titration <i>supposing, that the sample was taken after regeneration and rinse</i>	171,00 €
Kinetic properties		
Kinetic properties	Crosscolouring <i>eg. after cleaning</i>	45,00 €
Kinetic properties	Colouring after purification <i>incl. resin cleaning</i>	94,00 €

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Microbiological Examinations		
Microbiological Contamination	Colony forming Units <i>Bacteria, Yeast and Molds with culture media-coated dip-slide</i>	113,00 €
Contents		
Contents in resin or eluate	COD photometric <i>in the cleaning supernatant (including the resin cleaning)</i>	76,00 €
Contents in resin or eluate	Silica (SiO ₂) photometric <i>in the cleaning supernatant (including the resin cleaning)</i>	91,00 €
Contents in resin or eluate	Fe photometric <i>in the cleaning supernatant (including the resin cleaning)</i>	81,00 €
Contents in resin or eluate	ICP-Screening <i>in the cleaning supernatant (including the resin cleaning)</i>	319,00 €
Contents in resin or eluate	ICP-Screening (resin) <i>ICP screening for metallic components in the acid-redissolved residue of the resin sample</i>	497,00 €
Mechanical parameters		
Mechanical stability	Destruction force and Elasticity	167,00 €
Mechanical stability	Osmotic Shock Test	264,00 €
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>	42,00 €
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>	166,00 €

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, ≈ 1000 ml resin are sufficient, for mixed bed samples we require a minimum resin quantity of 1,5 L resin. Please make sure that the sample containers (preferably wide neck jars) are air- and watertight, enabling us to determine the most accurate results possible.

The basic tariff of 97 € 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/mixed bed component. Payment terms that exceed 30 days will increase the total amount by 2 % for each 30 days prolongation.