TEMIZ™ DVB-COOH MP

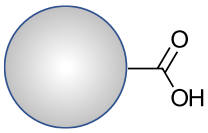
Material overview

TEMIZ DVB-COOH MP Resin is a polymeric resin based on highly stable DVB-Styrene backbone with polar weak cation exchange (WCX) carboxylic acid surface groups. The resin is characterized by its good rigidity and an exceptionally high loading of COOH groups. This resin is quite unique in its properties as most other carboxylic acid resins are based on base-labile methacrylate resins which can disintegrate at extreme pH levels, whereas Temiz DVB-COOH MP is based on highly stable cross-linked polystyrene base and is stable over a much broader pH range.

Resin properties

Resin matrix	DVB/PS
Large particle size	300 - 1000 µm
Pore size	Mesoporous
Functionality	COOH, Carboxyl
Ion exchange capacity, approx	Ca 4 mmol/g
Capacity per ml, approx	2 mmol/g
Resin density, approx	0,5 g/ml
Dry volume	2 ml/g
Swelling in water	2,2 ml/g
Swelling in MeOH	2,8 ml/g

Small particle size of 75 -175 µm can be provided upon request.



Application areas

TEMIZ DVB-COOH for use in separation, batch binding, solid phase extraction or scavenging. The material is unique in its properties.

1) An alternative to strong cation exchangers (SCX) containing sulfonic acid functional groups. The weaker COOH exchange functionality (pka ca 4.5) may be advantageous where a more balanced binding strength is desired. Desorption is possible under milder conditions than conventional SCX resins. This allows for a simpler “catch-and-release” purification.
2) The stable DVB backbone allows for harsher binding and washing conditions than comparable WCX resins based on acrylate esters or silica.
3) A DVB backbone in combination with carboxylic acid functional groups is a unique material on the market and offers a novel selectivity for various applications.

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Resin	Grams	Product code
Temiz DVB-COOH MP	5	10-02-0005
Temiz DVB-COOH MP	10	10-02-0010
Temiz DVB-COOH MP	25	10-02-0025
Temiz DVB-COOH MP	100	10-02-0100

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