

## Technical Papers

Product	Publication title	Reference	Published by
AP1090	Process for immobilization of enzymes	US 2003/0203457 A1	Novozymes
ECR resins	Using enzyme immobilization to boost industrial biocatalysis	A.Basso, G. Thundercliffe, Chemistry Today, 31 (2013) 54-55	Purolite
ECR1030M	New highly robust divinyl benzene/acrylate polymer for immobilization of lipase CALB	A.Basso, L. Froment, M. Hesseler, S. Serban, Eur J Lipid Sci Technol, 115 (2013) 468–472	Purolite
ECR1061M ECR8804M ECR8806M ECR1090M ECR1030M	Evaluation of different commercial hydrophobic supports for the immobilization of lipases: tuning their stability, activity and specificity	V. G. Tacias-Pascacio, S. Peirce, B. Torrestiana-Sanchez, M. Yates, A. Rosales-Quintero, J. J. Virgen-Ortíz, R. Fernandez-Lafuente, RSC Adv., 6 (2016), 100281-100294	University of Madrid (Spain)
ECR8806	Hydrophobic microenvironment optimization for efficient immobilization of lipases on octadecyl functionalised resins	A.Basso, M. Hesseler, S. Serban, Tetrahedron 72 (2016) 7323-7328	Purolite
ECR8285	Immobilization of SMG1-F278N lipase onto a novel epoxy resin: Characterization and its application in synthesis of partial glycerides	X. Li, D. Li, W. Wang, R. Durrani, B. Yang, Y. Wang, J Mol Catal B: Enzymatic 133 (2016) 154–160	University of Technology, Guangzhou China
Purophase™ PCG600M PCG900M PCG1200M PCG1200CPlus, PCG1200MHEMA 70MN	An Investigation into the Effect of Chemical and Physical Polymer Structure on Reverse Phase Extraction of Small Molecules such as Paracetamol and Haloacetic Acids.	A.Basso, B. Summers, C. Bresner, S. Serban, Chromatography today, Nov-Dec 2016, 26-30	Purolite
ECR8806	Evaluation of different lipase biocatalysts in the production of biodiesel from used cooking oil: Critical role of the immobilization support	V. G. Tacias-Pascacio, J. J. Virgen-Ortíz, M. Jiménez-Pérez, M. Yates, B. Torrestiana-Sanchez, A. Rosales-Quintero, R. Fernandez-Lafuente, Fuel 200 (2017) 1–10	University of Madrid (Spain)
ECR8806M ECR1030M	Modulation of the regioselectivity of <i>Thermomyces lanuginosus</i> lipase via biocatalyst engineering for the Ethanolysis of oil in fully anhydrous medium	E. Abreu Silveira, S. Moreno-Perez, A. Basso, S. Serban, R. Pestana Mamede, P. W. Tardioli, C. Sanchez Farinas, J. Rocha-Martin, G. Fernandez-Lorente, J. M. Guisan, BMC Biotechnology 17 (2017) 88-100	Campus UAM (Madrid, Spain)
Chromalite® PCG600M PCG900M PCG1200M PCG1200CPlus,	Synthetic polymeric resins in downstream processing for food, fine chemicals and pharmaceuticals	A.Basso, B. Summers, S. Serban, C. Bresner, Chemistry Today, 35 (2017) 70-73	Purolite

<b>PCG1200MHEMA 70MN</b>			
<b>ECR1030M</b>	Immobilization of <i>Candida antarctica</i> Lipase B Onto ECR1030 Resin and its Application in the Synthesis of n-3 PUFA-Rich Triacylglycerols	D. Li, W. Wang, P. Liu, L. Xu, M. Faiza, B. Yang, L. Wang, D. Lan, Y. Wang, <i>Eur. J. Lipid Sci. Technol.</i> 2017, 1700266	University of Guangzhou (China)
<b>ECR1508 ECR1504 ECR1604 PAD610 ECR8309 ECR8409 ECR8209 ECR8285</b>	A method for effective selection and optimization of immobilized biocatalyst	M. Polakovič, J. Adamíková, M. Antošová, Poster presentation at Biotrans conference 2017, Budapest	University of Bratislava (Slovakia)
<b>Macronet MN102</b>	Immobilization of <i>Candida antarctica</i> lipase B onto Purolite MN102 and its application in solvent-free and organic media esterification	M. Ćorović, M. Mihailović, K. Banjanac, M. Carević, A. Milivojević, N. Milosavić, D. Bezbradica, <i>Bioprocess Biosyst Eng</i> , 40 (2017) 23–34	University of Belgrade (Serbia)
<b>Macronet MN102</b>	Batch and semicontinuous production of l-ascorbyloleate catalyzed by CALB immobilized onto Purolite®MN102	M. Ćorović, A. Milivojević, M. Carević, K. Banjanac, S. Jakovetić Tanasković, D. Bezbradica, <i>Chem. Eng. Res. Design</i> , 126 (2017) 161–171	University of Belgrade (Serbia)
<b>ECR8804M ECR8806M</b>	Selective synthesis of partial glycerides of conjugated linoleic acids via modulation of the catalytic properties of lipases by immobilization on different supports	C. M. Verdasco-Martín, E. Garcia-Verdugo, R. Porcar, R. Fernandez-Lafuente, C. Otero, <i>Food Chemistry</i> , 2018, 245, 39–46	University of Madrid (Spain)
<b>PuroSynth™</b>	Investigating green ethers for the precipitation of peptides after global deprotection in solid-phase peptide synthesis	O. Al Musaimi, Y. E. Jad, A. Kumar, J. M. Collins, A. Basso, B. G. de la Torre, F. Albericio, <i>Curr Opin Green Sust Chemistry</i> 11 (2018), 99–103	Purolite, CEM Corporation (USA), University of KwaZulu-Natal (South Africa), University of Barcelona (Spain)
<b>Immobilised transaminases (ATA) on ECR</b>	Biocatalytic conversion of 5-hydroxymethylfurfural: Synthesis of 2,5-bis(hydroxymethyl)furan and 5-(hydroxymethyl)furfurylamine	A. Petri, G. Masia, O. Piccolo, <i>Catal Commun</i> , 114 (2018) 15–18	University of Pisa (Italy)
<b>ECR1030M ECR8806F ECR8204F</b>	How to optimise the immobilization of amino transaminases on synthetic enzyme carriers, to achieve up to a 13-fold increase in performances	A. Basso, W. Neto, S. Serban, B. Summers, <i>Chemistry Today</i> , 36(3) May/June 2018, 40-42	Purolite
<b>ECR8309M ECR8409M ECR8209M ECR8285</b>	A Method of Early Phase Selection of Carrier for <i>Aspergillus Oryzae</i> $\beta$ -Galactosidase Immobilization for Galactooligosaccharides Production	J. Adamíková, M. Antošová, M. Polakovič, <i>Biotechnol. J.</i> 2018, 1800120, DOI: 10.1002/biot.201800120	University of Bratislava (Slovakia)
<b>Immobilised transaminases (ATA) on ECR</b>	Asymmetric synthesis of a high added value chiral amine using immobilized $\omega$ -transaminases	A. Petri, V. Colonna, O. Piccolo, <i>Beilstein J Org Chem</i> , 15 (2019) 60–66	University of Pisa (Italy)

<b>PuroSynth™</b>	Greening the Solid-Phase Peptide Synthesis Process. 2-MeTHF for the Incorporation of the First Amino Acid and Precipitation of Peptides after Global Deprotection	O. Al Musaimi, Y. Jad, A. Kumar, A. El-Faham, J. Collins, A. Basso, B. de la Torre, F. Albericio, Org Proc Res Devel, 2019, under publication	Purolite, University of KwaZulu-Natal (South Africa)
<b>PuroSynth™</b>	Jetting Manufacturing of Resins for Solid-Phase Peptide Synthesis	O. Al Musaimi, S. Serban, Y. E. Jad, Z. Ma A. Kumar, C. Ji, B. G. de la Torre, A. Basso, F. Albericio, Chemistry Today, 2019, 37, 20-23	Purolite, University of KwaZulu-Natal (South Africa)
<b>ECR8309F</b> <b>ECR8409F</b>	One-Pot Enzymatic Production of Lignin-Composites	S. Ion, C. Opris, B. Cojocaru, M. Tudorache, I. Zgura, A. C. Galca, A. M. Bodescu, M. Enache, G.-M. Maria, V. I. Parvulescu, Frontiers in Chemistry, 2019, 6, 1-9	University of Bucarest