

ReliZyme™

Enzyme carriers



Resindion S.r.l.

A Group Company of  MITSUBISHI CHEMICAL

www.resindion.com

ReliZyme™

ReliZyme™ products line

	ReliZyme™	Functional group	Application technologies examples
READY TO USE for multipoint covalent binding	EP		<p>Resindion acquired a big experience in beta-lactams intermediate production in pharma industries, in particular:</p> <ul style="list-style-type: none"> • 7-ADCA production • 7-ACA production • 6-APA production. <p>Many other existing and potential applications, also in the food and pharma market areas:</p> <ul style="list-style-type: none"> ✓ Amino acylase – lyase ✓ Beta-amylase ✓ Cellulases ✓ Cyclodextrineglucano transferase ✓ Gluco-amilase ✓ Glucoisomerase ✓ Hydantoinase ✓ Lipases ✓ Nitrilases ✓ Nitril hydratase ✓ Peroxidase ✓ Pullulanase ✓ Trypsin
	HFA		
	SHY		
	LHY		
Multipoint covalent and ionic binding	EA		
	HA		
	QA		
	IDA		
Physical adsorption	HG		
	BU		
	RB1		
	RB3		

Handling and storage

ReliZyme™ are delivered in wet form.

Users are requested to observe the generally accepted precautions for the handling of chemicals and to follow the health and safety recommendations set out in each ReliZyme™ SDS. ReliZyme™ ready to use types have to be stored at 4 – 6 °C and for no longer than 3-6 months in the original sealed packing. All the other products can be stored at room temperature in the original sealed packing.

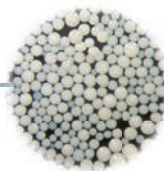
Typical features

ReliZyme™ are Resindion products designed for biocatalytic applications and they are characterized by rigid methacrylic polymer matrix and very high physical and chemical stability.

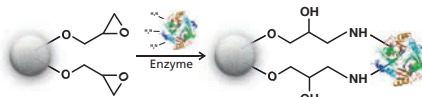
Special ReliZyme™ products can be designed on purpose according to customer's needs:

- different ligands
- different porosity
- different particle size distribution.

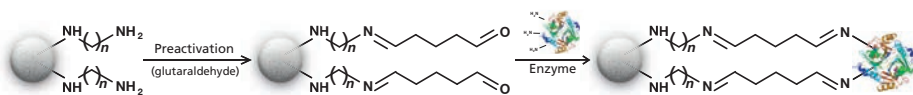
	Particle size range (µm)	
	S grade	M grade
ReliZyme™ 112	100 - 300	200 - 500
ReliZyme™ 113		
ReliZyme™ 403		
ReliZyme™ RB1		
ReliZyme™ RB3		



EP and HFA resins → Multipoint covalent binding



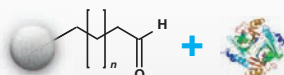
Amino resins → Multipoint covalent binding via preactivation



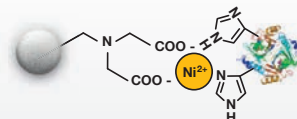
Alkyl resins → Physical adsorption



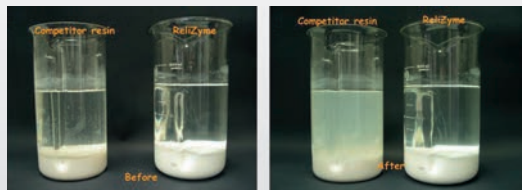
Aldehyde resins → Schiff base formation



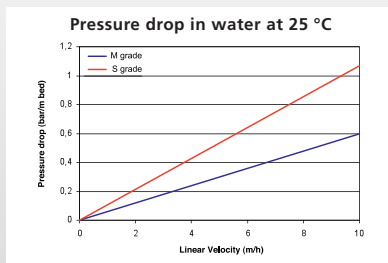
Iminodiacetic resins → Multipoint ionic binding



The outstanding mechanical stability of **ReliZyme™** products compared to a competitor resin having the same particle size is shown below;



This feature makes **ReliZyme™** suitable for the use in both columns and stirring biocatalysis reactors.



ReliZyme™

Material Support File



Resindion S.R.L., an UNI EN ISO 9001:2015 certified Company, offers the following regulatory documents for each product

- technical data sheet and relevant technical literature
- certificate of analysis
- safety data sheet.

All substances used in the manufacture of **ReliZyme™** are selected among those reported in the European Resolution ResAP (2004) 3 Version 3 – 28.01.2009, which is related to the resins that can be used in the processing of foodstuffs.

Customer service

Resindion S.R.L. qualified technical and marketing team grants all the necessary customer assistance, from **ReliZyme™** selection to a periodical analytical control of the products characteristics during operation. Please contact Resindion at: customerservice@resindion.com or technicalservice@resindion.com.

Resindion Product Lines



KAITEKI,

a sustainable condition which is comfortable for people, society and the Earth, transcending time and generations. Sustainability and the betterment of life, through the use of **Good Chemistry For Tomorrow**, are at the core of everything we are doing.

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B. ver. 5.0 - 2018/10/01
Printed in October 2018