

The right enzyme for your fruit application

Choose Rapidase® for your fruit and vegetable processing and you choose the most established and versatile enzyme brand in the industry. Our Rapidase® range enables higher yields, faster clarification, improved texture, firmness and color.



Apple and Pear Juice Processing

The challenge for juice processors is to achieve consistently high yields and robust processing, despite the varying quality of raw materials and ensure maximum throughput during peak season. DSM's Rapidase® range of fruit processing enzymes addresses these challenges, delivering a consistent, high quality, crystal clear apple juice.



Tropical Fruit Processing: Citrus, Pineapple, Stone Fruits (Mango, Papaya, Guava & Peach)

Loaded with vitamins and a great source of antioxidants, tropical fruits have been an integral part of juice and puree processing especially in recent years. DSM's special designed tropical fruit enzymes, such as Rapidase® Pineapple and Rapidase® PL Classic for Pineapple and Citrus processing, and Rapidase® Fiber for stone fruits processing are here to ensure smooth operation, maximize yield and plant capacity, and facilitates new product developments.



Red Fruits Juice Processing

The juice of colored fruits like blackcurrants, sour cherries, cranberries and pomegranates is appreciated by consumers for its vibrant color and health benefits linked to high antioxidant and anthocyanin content. For this reason, the juice consumption of these super fruits is growing at a fast pace. DSM's Klerzyme® and Rapidase® Smart Color have been specially developed for efficient processing of berry juices and do not contain side-activities that break down anthocyanin, ensuring the release of all the fruit's vibrant color and antioxidants.



Fruit Firming

Consumers prefer food with an authentic look, taste and texture, in which individual ingredients can be clearly recognized and no artificial ingredients are used. Fruit and vegetable pieces convey the sensation of authenticity and indulgence in new food products like beverages, yogurt and baked goods. DSM's Rapidase® PEP enzymes and Rapidase® FP Super enzymes ensure that these fruit and vegetable pieces are kept firm and appealing, even after mechanical and thermal treatment, improving the overall sensory experience of the product.

Fruit Enzymes Application Reference Table

Fruit type	Application	Rapidase® Press	Rapidase® Press KPO	Rapidase® Smart Plus	Rapidase® Smart	Rapidase® Power	Klerzyme [®] 150	Klerzyme [®] 201	Klerzyme [®] 202	Rapidase® Smart Color	Rapidase® C80 Max	Rapidase® C80 KPO	Rapidase® Smart Clear	Hazyme [®] DCL	Rapidase® Fiber	Rapidase® PEP	Rapidase® FP Super	Rapidase® Pineapple	Rapidase® PL Classic	Rapidase® Sensation	Validase® TRL
	Juice extraction - Horizontal / belt press	•	•	•	•					•											
Apple / Pear	Juice extraction - Decanter	•	•	•	•	•				•											
	Juice extraction - Cloudy juice															•	•				
	Juice extraction - Pomace pectin recovery															•	•				
	Juice clarification - Depectinization					•					•	•	•								
	Juice clarification - Starch degradation													•							
	Juice ultrafiltration - Flux improvement					•															
	Ultrafiltration filter cleaning														•						0
	Juice / color extraction						•			•											
d fruit	Juice clarification - Depectinization						•			•											
ed / Red fruit	Ultrafiltration filter cleanning														•						0
Colore	Concord grape processing					•	•	0	0	•											
	Strawberry / Raspberry juice extraction	•								•											
	Aroma natural																				
Citrus fruit	cloudifier extraction																		•		
	Juice concentration - Avoid jellification									•									•		
	Pulp washing - Second juice recovery									•									•		
	Juice clarification - Depectinization						•			•											
	Essential oil recovery									•	•	•							•		

• enzyme used in application \circ when used in combination, enhance performance

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Pineapple	Mill juice extraction																		•			
	Mill juice clarification																		•			
	Ultrafiltration filter cleaning															•			•			0
Other fruits	Stone fruit puree processing										•					•						
	Stone fruit clear juice extraction										•					•						
	Pomegranate juice processing						•				•											
ers	Vegetable juice extraction					•										•						0
& Oth	Olive oil extraction															•						0
Vegetable & Others	Tomato puree firming																•	•				
	Tomato seed cleaning											•	•	•								
Indulgence enhancement	Fruit firming																•	•				
	Puree consistency																•	•				
Indulg enhanc	Flavor enhancement																			•	•	
a	Plant extracts					•																0

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