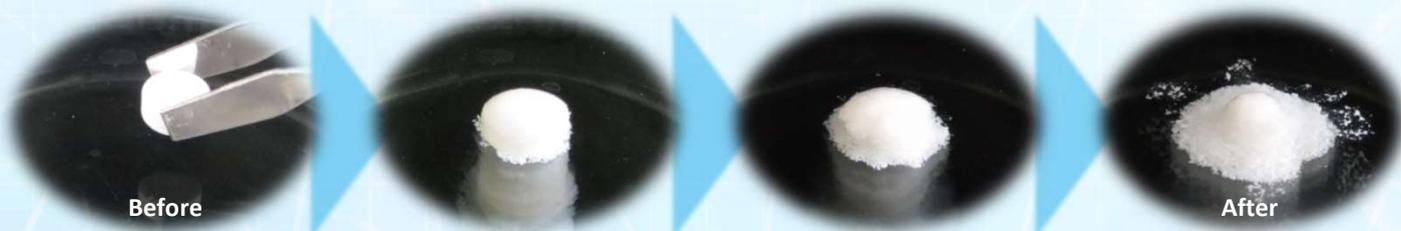


HiSORAD™ HSR-D03

Product Features

- HiSORAD is a state-of-the-art co-processed excipient for orally disintegrating tablets designed to have well-balanced property between oral disintegration time and tablet hardness.
- Composed of three compendial grade excipients, D-Mannitol, MCC and Croscarmellose sodium.

Tablet containing HiSORAD disintegrates rapidly when contacting with water.



Characteristics

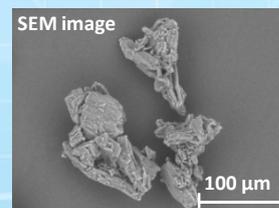
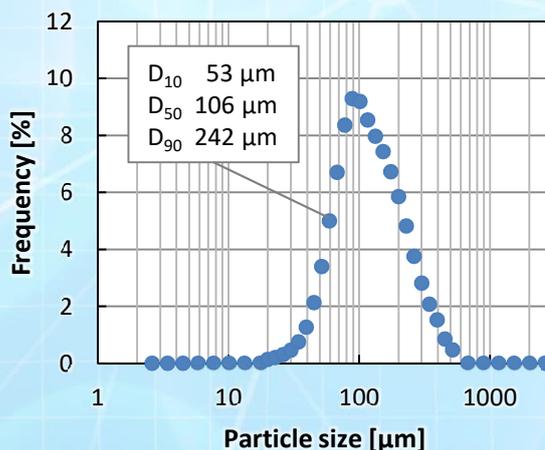
- Excellent compactibility
- Well-balanced tablet property between OD time and hardness
- High API loading capacity
- Simple composition

Powder Properties

Item	Typical Value
Mean Particle Size*1	106 μm
Density*2	Loose 0.35 g/cm ³
	Tapped 0.49 g/cm ³
Angle of Repose*2	41°
Orifice Diameter*3	6.3 mm
Water Content	2.4 wt%

Measurement methods

- *1 Dry laser diffraction/light scattering instrument
- *2 Powder tester
- *3 Orifice diameter measurement instrument



Daicel Corporation

1-8-23, Konan, Minato-ku, Tokyo, 108-0075, Japan
 TEL: +81-3-6711-8169 FAX: +81-3-6711-8168

<https://daicel-excipients.com/> daicel-excipients@jp.daicel.com

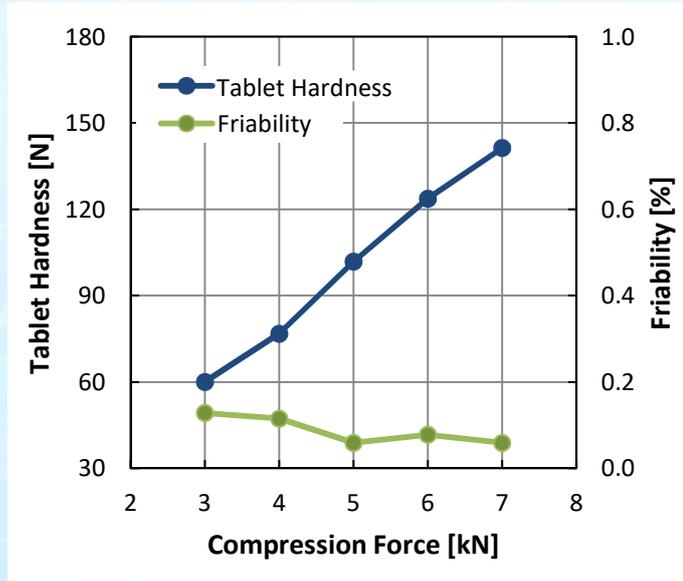
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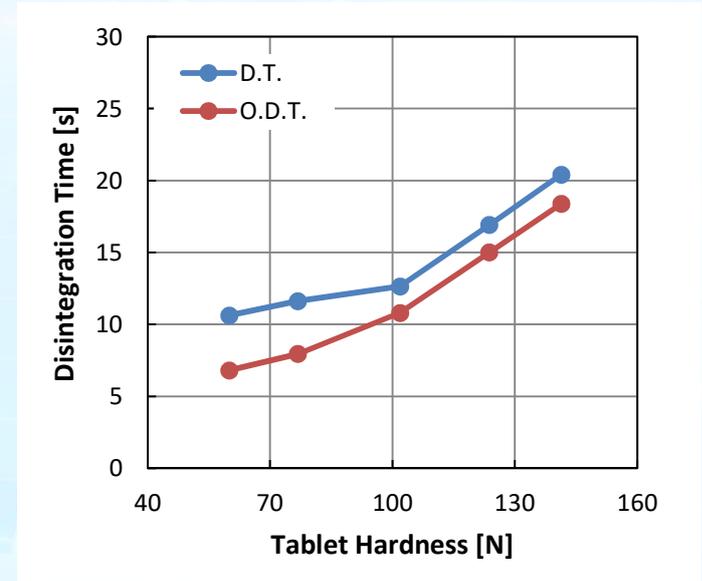
Tablet Properties (Placebo)

- High tablet hardness possible even at relatively low compression forces
- Placebo tablet with HiSORAD draws water rapidly and disintegrates within 20 seconds.

■ Compactibility



■ Disintegratability



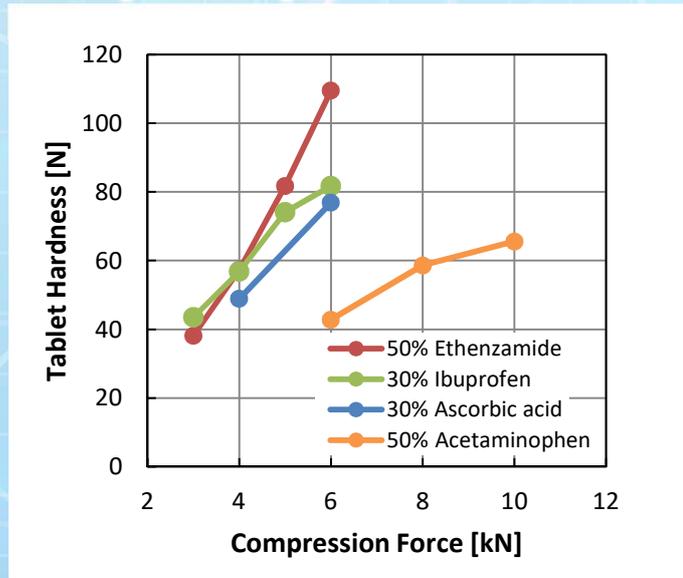
Composition : HSR-D03 (99.5%) + Ca Stearate (0.5%)
 Tableting Condition : Rotary-press, 20 rpm, Open-Feeder
 Hardness : Measured by electronic hardness tester (Ave. of n=10)
 Friability : Measured by JP general test method

Tablet Shape : 200 mg, φ8 mm, Flat-bevelled edge
 Disintegration Time : Measured by JP general test method (D.T.) (Ave. of n=6)
 Oral Disintegration Time : Measured by Tricorptester (Ave. of n=6) (O.D.T.) (Okada Seiko Co., Ltd. Tokyo, Japan)

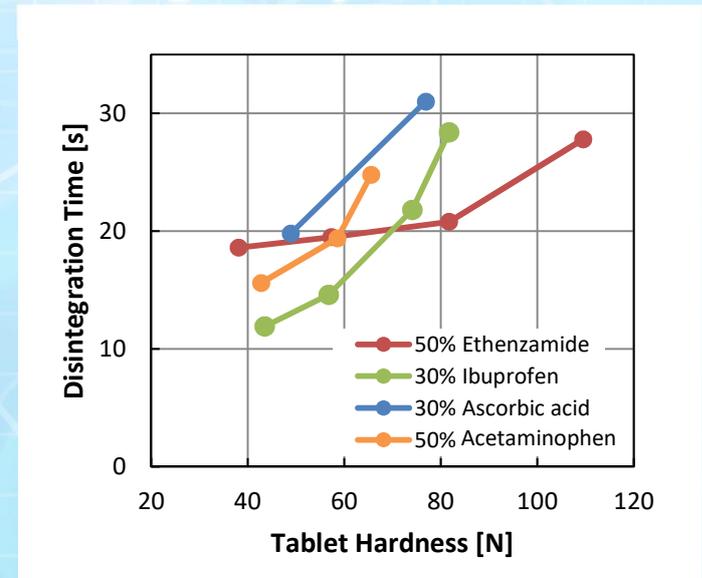
Tablet Properties (Containing API)

- HiSORAD enables rapid disintegration and sufficient tablet hardness even when API is loaded at relatively high amount.
- Tableting of poorly compressible APIs may be possible due to its excellent compactibility.

■ Compactibility



■ Disintegratability



Composition : HSR-D03 + API + Mg Stearate (0.5 - 1.5%) + LASA (1.0 - 1.2%)
 Tablet Shape : 250 mg, φ8 mm, Flat-bevelled edge
 Tableting Condition : Rotary-press, 20 rpm
 Hardness : Measured by electronic hardness tester (Ave. of n=10)
 Disintegration Time : Measured by JP general test method

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