

Vitasmooth[®]

DC Calcium Carbonate preformulated platform for smooth meltaway antacid tablets



Vitasmooth is the perfect match for companies to extend their portfolio with a value added chewable and meltaway calcium-based antacid tablet that delivers a smooth and creamy mouthfeel.



Easy to use saving you time and money

- Reduce R&D and product development costs
- Vitasmooth is ready to use and directly compressible calcium carbonate based formula for a chewable meltaway antacid tablet. Only add flavor of choice and lubricant

Excellent for tableting by direct compression

Vitasmooth + Flavor + Lubricant



Blend



Tablet

- Avoid granulation – improve productivity, by saving time and high costs

Good Compactibility

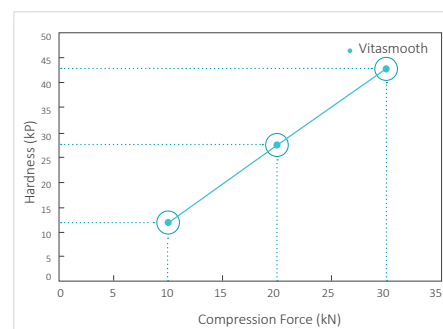
- At compression force between 10-15 kN, the Vitasmooth tablets have ideal hardness for chewable tablets

Good flowability

- Our granulation technology provides consistent PSD from batch to batch and that ensures good flowability and good tableting

Versatility

- Can be used in many different final application forms - chewable, sachet, gummies, toffees, and effervescent forms with smooth fizzing



Vitasmooth®

SPI Pharma's expertise can speed the development of new fast melt tablets.

Starting formula: Chewable meltaway antacids tablet Calcium Carbonate using DC Vitasmooth

	LABEL CLAIM per Tablet	
Calcium Carbonate	750 mg CaCO ₃ <i>equivalent to: 300 mg of Calcium (Ca²⁺)</i>	
INGREDIENTS	% by weight	Qty per Tablet
VITASMOOTH at 57% CaCO ₃	82.70 %	1323.25 mg
Mannogem XL	14.90 %	238.35 mg
Sucralose	0.10 %	1.60 mg
Citric Acid Anhydrous	0.20 %	3.20 mg
Guar Gum	0.30 %	4.80 mg
Colloidal Silicon Dioxide	0.30 %	4.80 mg
Orange Flavor	0.25 %	4.00 mg
Lake Blend Orange	0.50 %	8.00 mg
Magnesium Stearate	0.75 %	12.00 mg
Total Tablet Weight 1600.00 mg		

Ingredients: Vitasmooth contains Calcium Carbonate, Dextrose, Sucrose, MCC, Maltodextrin

Manufacturing Guidance

1. Vitasmooth and Mannogem XL are passed through Mesh # 30 ASTM
2. Sucralose, Citric acid anhydrous, Orange flavor and Guar gum are passed through Mesh # 40 ASTM
3. Colloidal Silicon Dioxide and Lake Blend Orange are passed through Mesh # 80 ASTM
4. Materials of step 1, 2 and 3 were co-sifted through # 30 mesh ASTM and blended for 10 minutes in a V-blender
5. Magnesium stearate is passed through Mesh # 60 ASTM
6. Add step 5 to step 4 and blend for 5 minutes
7. Compress the formulation to 1.6 g tablets on a rotary tablet press to 8kp





Elemental Impurities

Operating in a highly regulated industry, we understand the importance of minimal elemental impurities for our customers. We perform a thorough risk assessment on all of our products to ensure regulatory compliance. SPI Pharma has invested approximately \$1M of testing technology, resources and external testing to ensure our customers the peace of mind that our products are below the threshold and only require annual confirmation testing. Customers can depend on our certification and can alleviate their burden of testing.

Regulatory Compliance†

Calcium Carbonate Vitasmooth 041

- ✓ Technical File
- ✓ Non-GMO
- ✓ Gluten Free
- ✓ Aflatoxin Free
- ✓ cGMP*
- ✓ Compendial grade ingredients (USP)
- ✓ Nanomaterial Free
- ✓ Components Origin
- ✓ Latex Free
- ✓ Absence of Residual Solvents
- ✓ Absence of Phthalates
- ✓ Tested for Elemental Impurities
- ✓ TSE/BSE
- ✓ Absence of Allergens
- ✓ Melamine free



* Redacted EIR issued by USFDA is available and is equivalent to cGMP certificate.

† Documents available upon request



Excipients for Swallow Tablets



Taste Masked Actives



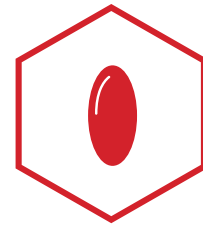
ODTs/ODPs



Effervescent Tablets



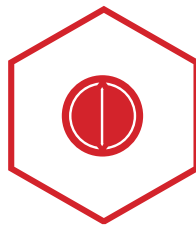
Vaccine Adjuvants



Soft Gel Capsules



Antacid & Laxative Ingredients



Chewable Tablets & Lozenges



Nutraceutical Applications

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