

Vitasmooth[®]

DC Calcium Carbonate preformulated platform for smooth meltaway tablets



Vitasmooth is the perfect match for companies to extend their portfolio with a value added chewable and meltaway calcium-based 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 vitamin and mineral supplement tablet. Only add flavor of choice and lubricant

Excellent for tableting by direct compression



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

Good Compactibility

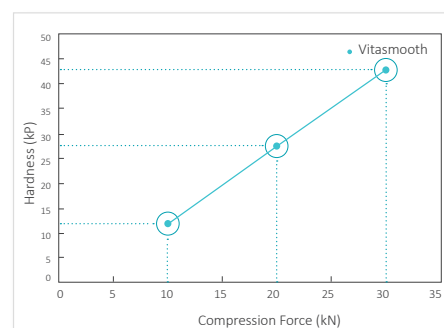
- At compression force between 10-15 kN, the Vitasmooth tablets have ideal hardness for chewable tablets

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.

Use the formulation below to make a 500mg Calcium Carbonate plus multivitamin meltaway tablet.

LABEL CLAIM per Tablet		
Calcium Carbonate	500 mg CaCO ₃ equivalent to: 200 mg of Calcium (Ca ²⁺)	
INGREDIENTS	% by weight	Qty per Tablet
VITASMOOTH at 58% CaCO ₃	71.84 %	862.07 mg
Vitamin Premix	16.67 %	200.00 mg
Mannogem EZ (DC Mannitol)	4.89 %	58.73 mg
Orange Flavor	3.00 %	36.00 mg
Lubripharm	2.50 %	30.00 mg
Sucralose	1.00 %	12.00 mg
FD&C Yellow #5	0.08 %	0.90 mg
FD&C Red #40	0.02 %	0.30 mg
Total Tablet Weight 1200.00 mg		

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

Manufacturing Guidance

- 1. Screening / Weighing:** screen through # 30 mesh sieve and weigh the ingredients listed in the above recipe
- 2. Blending:** blend the ingredients for approximately 10 minutes on a Turbula Blender Type
- 3. Tableting:** compress the blend to the targeted tablet characteristics on a rotary tablet press



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†

Vitasmooth

- ✓ Technical File
- ✓ Non-GMO
- ✓ Gluten Free
- ✓ Halal (for ingredients)
- ✓ Kosher
- ✓ Aflatoxin Free
- ✓ cGMP*
- ✓ Nano Material Free
- ✓ Components Origin
- ✓ Latex Free
- ✓ Absence of Residual Solvents
- ✓ Absence of Phthalates
- ✓ Food Compliance
- ✓ Heavy Metals Compliance
- ✓ USP (ingredients meet USP)
- ✓ BSE/TSE
- ✓ Absence of Allergens

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

† Documents available upon request



Excipients for Swallow Tablets



Taste Masked Actives



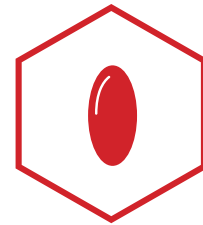
ODTs/ODPs



Effervescent Tablets



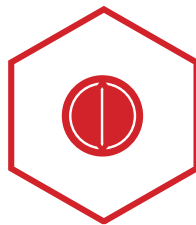
Vaccine Adjuvants



Soft Gel Capsules



Antacid & Laxative Ingredients



Chewable Tablets & Lozenges



Nutraceutical Applications

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