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Solid Oral Dosage Forms Cheat Sheet by MJC3 via cheatography.com/212269/cs/46141/

Introduction to Solid Oral		Quality Control (QC)		Tablet coatings (cont)		Tablet Manufacturing – Moist		
Dosage	Forms	Official te	sts (BP/EP)	Types:		Granulation		
Types:	Tablets, Capsules, Lozenges, Pastilles, Powders, Granules	For all tablets:	Uniformity of content	Sugar coating:	Multistage, increases weight, glossy finish	Mixing with Diluents:	Lactose, o calcium sa starches,	alts,
Advant ages:	Convenient, stable, accurate dosing, taste masking, potential for	Uncoated tablets:	disintegration, dissolution	Film coating:	Popular, automated, controlled release capable, minimal weight gain	Blending with Binder:	Water, methylcel- lulose, starch paste, gelatin, etc.	
Disadv	controlled release Difficult to swallow,	Hardnes	Hardness, friability		Rare, separates incompatible ingred-	Screening:	Mesh size affects granule size	
ant- ages:	drugs	Tablets Defini-	Solid mass compacted		ients	Drying:	Tray/fluid bed dryer; granules re-screened	
Alternative Tablet Manufacturing Methods			using a tablet machine: typically 50- 500mg	QC test details			post-drying	
		uon.		Disintegr- ation:	6 tubes in 37°C bath; usually ≤15	Additives:	Lubric- ants:	Stearates PEGs,
Pre-co- mpr- ession:	Used when moisture/- heat-sensitive; uses slugs or roller compaction	ties:	Strong, Bioavailable, stable, elegant, uniform in weight and	Dissol- ution:	minutes Basket/paddle/cell method; ≥70–75%		Glidants:	sodium benzoate Talc,
Direct	Simple and cost-effe-		content Standard, Soluble/D- ispersible, Efferv- escent, Chewable, Buccal, Sublingual,		drug released in 45 mins			fumed silica
Compre ssion:	ctive; uses flowable drug/diluent mix (e.g. Avicel, Zeparox)	j. e		Hardness (Crush- ing):	Measured force to break tablet		Disint- ergrants:	Starch, s: alginic acid,
Capsule vs Tablet decision factors			Enteric-coated, Controlled release	Friability:	Weight loss after 100 rotations (≤1% allowed)			cellulose
Company policy, market research, competitor products		Tablet coatings						
Equipment, production costs, unit dose, dissolution rate, drug stability		Purposes	: Protect drug, taste/appearance, ID, stability, controlled release					

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Capsule Ma	anufacturing	Tablet compression			Capsules			
Hard capsules:	Filled with powders, granules, tablets, pastes	Stages:	Lower punch creates cavity → powder fills →		Shell:	Gelatin (Type A – acid hydrolysis; Type B – base hydrolysis)		
	Must not react with gelatin or leak		upper p compres	sses →	Types:	Hard capsules:	Two- piece,	
Softgels:	Filled, formed, sealed in one go using rotary die machine	Machines:	tablet ejected Single Small stroke scale press:				filled with dry/semi solid materials	
	Fill is sealed between two gelatin ribbons		Rotary press:	Large scale, 10,000+ tablet-		Soft capsules (softg- els):	One- piece, filled with non-aq-	
Specialised Solid Forms			s/min				ueous liquids	
Lozenges:	Local effect; slow dissolve in mouth, no disintegrant	dissolve in mouth, capping, lamina-		, lamina- ight				
Chewables	: Rapid breakdown in mouth, no disintegrant	Functional Coatings						
Dispersib- le/Soluble Tablets:	Dissolve/disperse in water; water compatible disint-	Enteric Coating:	P					
	egrant required	Controlled	Diffusion-contr- olled, Erosion-b- ased, Osmotic systems					
Efferv- escent Tablets:	Rapid disintegr- ation via fizz; no standard	release:						
Sublingua- I/Buccal Tablets:	lubricants Dissolve in mouth for fast absorp- tion; no disintegr- ation needed							



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