## Cheatography

Solid Oral Dosage Forms Cheat Sheet	
by MJC3 via cheatography.com/212269/cs/4614	-1/

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

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Capsule Ma	anufacturing	Tablet com	pression		Capsule	s	
Hard capsules:	Filled with powders, granules, tablets, pastes	Stages:	Lower punch creates cavity → powder fills →		Shell:	Gelatin (Ty hydrolysis; base hydro	
	Must not react with gelatin or leak		upper p compres tablet ej	sses →	Types:	Hard capsules:	Two- piece, filled with
Softgels:	Filled, formed, sealed in one go using rotary die machine	Machines:	Single stroke press:	Small scale			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
Lozenges:	Local effect; slow dissolve in mouth, no disintegrant	Issues:	Picking, sticking, capping, lamina- tion, weight				liquids
Chewables	: Rapid breakdown in mouth, no disintegrant	variation, mottling Functional Coatings					
Dispersib- le/Soluble Tablets:	Dissolve/disperse in water; water compatible disint-	Enteric Coating:	pH-dependent solubility; protects from stomach acid				
	egrant required	Controlled Diffusion-contr-					
Efferv- escent Tablets:	Rapid disintegr- ation via fizz; no standard lubricants	release:	olled, Erosion-b- ased, Osmotic systems				
Sublingua- I/Buccal Tablets:	Dissolve in mouth for fast absorp- tion; no disintegr- ation needed						



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