



## Direct Compression Formulation Used to Produce Norfloxacin (400 mg) Tablets

### Formulations and Tablet Properties

Ingredients	Mg/Tablet	Percent (w/w)
Norfloxacin	400.00	77.67
Microcrystalline cellulose	48.56	9.43
Starch 1500	47.12	9.15
Stearic Acid	5.15	1.00
Fumed Silica	2.58	0.50
Croscarmellose Sodium	10.30	2.00
Magnesium Stearate	1.29	0.25
Total	515.00	100.00

### Tablet Properties

Compaction Force	18 kN
<b>Tablet Properties</b> (15/32" standard concave tooling)	
Weight	515 mg
Diameter	11.9 mm
Thickness	4.6 mm
Hardness	10.6 kp
Friability	0.05 %

### Process (Direct Compression)

(Twin-shell blender)

- Pass the Starch 1500 and the fumed silica together through a 40 mesh screen.
- Add the norfloxacin, microcrystalline cellulose, stearic acid and croscarmellose sodium to the material from Step 1 and blend for 15 minutes in a twin-shell blender.
- Add the magnesium stearate to the material from Step 2 and blend for an additional 5 minutes.
- Tablets were compressed by direct compaction using a Piccola 10 station rotary tablet press.

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**World Headquarters**

Colorcon

415 Moyer Blvd., P.O. Box 24, West Point, PA 19486-0024

Tel: 215-699-7733 Fax: 215-661-2605 Web Site @<http://www.colorcon.com/pharma>

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