

Tablets containing pressure-sensitive APIs

Overview

It is challenging for pharmaceuticals to preserve the quality of pressure-sensitive APIs in tablets as this quality tends to deteriorate due to the heat and pressure during tableting. By using a highly compactible MCC, the compression force can be reduced compared to conventional MCCs in order to achieve the sufficient tablet hardness. It can contribute to the better API quality.

Formulation example:

Recommended MCC grades

Ceolus™ KG-1000

Challenges

Low pressure tableting

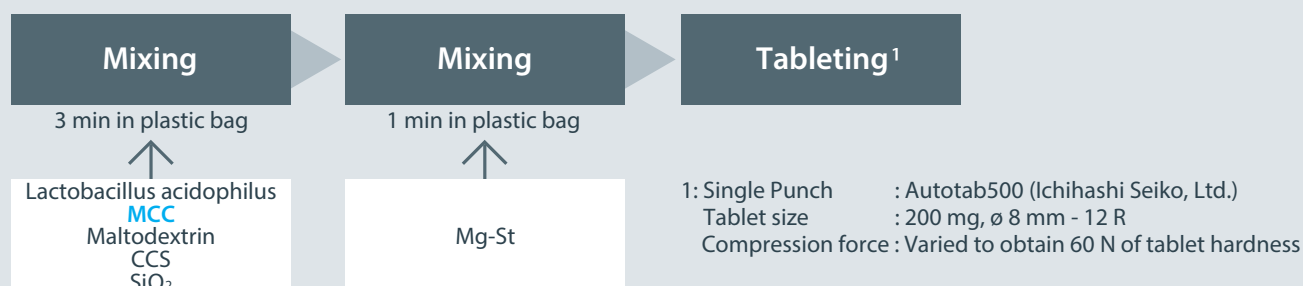
Key words

Lactobacillus acidophilus : 25 %	Tablet weight : 500 mg
Uncoated tablets	Direct compression

Formulation

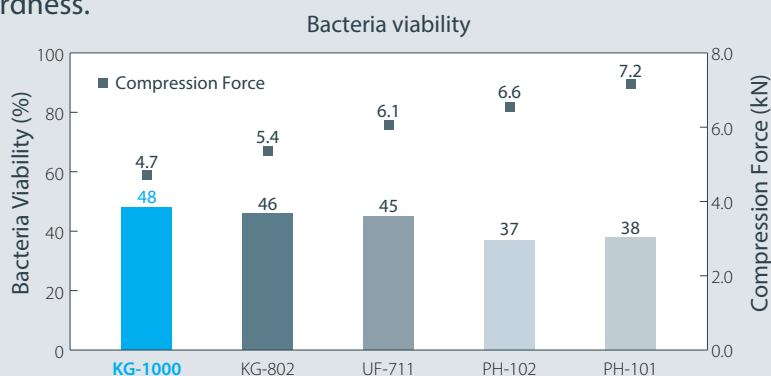
Ingredients	Ratio (wt. %)
Lactobacillus Acidophilus	25
MCC: Ceolus™ KG-1000 or KG-802 or UF-711 or PH-101 or PH-102	27
Maltodextrin	45
Croscarmellose Sodium (CCS)	1
Silicon dioxide (SiO ₂)	1
Magnesium Stearate (Mg-St)	1

Procedure



Results

Ceolus™ KG-1000 achieved the highest bacteria viability with the lowest compression force thus achieving the sufficient tablet hardness.



Disclaimer of warranty and liability

- All information in this publication is provided in good faith and believed correct, but Asahi Kasei Corporation undertakes no obligation, liability, warranty, or other responsibility, express or implied, for its completeness or accuracy.
- It is the responsibility of the user to determine the suitability of the product for the intended use, and the information herein is provided only on this condition.
- Asahi Kasei Corporation is under no obligation whatsoever, whether express or implied, in relation to any loss or damage occurring in or arising out of the use of any product or information described herein.
- This publication does not represent and is not to be construed as a recommendation for any application or use of products, processes, equipment, or formulations described herein which may be in conflict with any valid patent.
- In relation to any and all of the above, Asahi Kasei Corporation is under no obligation or liability of any nature for any loss or damage, and undertakes no warranty relating thereto.

ASAHI KASEI CORPORATION

Ceolus Overseas Sales & Marketing Dept.
Functional Additives Division

E-mail: ceolus_2@om.asahi-kasei.co.jp

www.ceolus.com/en/

