

DA	A
<p>3.2.P.3.1 Manufacturers</p> <p>Manufacturer:</p> <p>Glaxo Wellcome Production Zone Industrielle No. 2 23, rue Lavoisier 2700 Evreux France</p> <p>Secondary Packaging:</p> <p>GlaxoSmithKline Manufacturing S.p.A Via A. Fleming, 2 37135 Verona Italy</p> <p>Or</p> <p>GlaxoSmithKline Manufacturing S.p.A Strada Provinciale Asolana, 90 43056 San Polo di Torrile Parma Italy</p> <p>Testing:</p> <p>GlaxoSmithKline Manufacturing S.p.A Strada Provinciale Asolana, 90 43056 San Polo di Torrile Parma Italy</p>	<p>3.2.P.3.1 Manufacturers</p> <p>Manufacture, primary and secondary packaging, quality control testing and batch release:</p> <p>Losan Pharma GmbH Otto Hahn Strasse 13 79395 Neuenburg am Rhein Germany</p>

5) variazione di tipo I n. B.II.a.1.a - Modifica o aggiunta di impressioni, rilievi o altre marcature compresa l'aggiunta o la modifica di inchiostrati usati per marcare il medicinale. Modifiche di impressioni, rilievi o altre marcature:

Compresses 150 mg

DA	A
<p>3.2.P.1.1 Descrizione</p> <p>Compresses di colore da bianco a giallo pallido, rotonde, piatte e con bordi smussati</p>	<p>3.2.P.1.1 Descrizione</p> <p>Compresses di colore da bianco a giallo pallido, rotonde, smussate, contrassegnate con la sigla "GS LHK" su un lato e piatte dall'altro</p>



Compresse 300 mg

DA	A
3.2.P.1.1 Descrizione Compresse di colore da bianco a giallo pallido, rotonde, piatte e con bordi smussati	3.2.P.1.1 Descrizione Compresse di colore da bianco a giallo pallido, rotonde, smussate, contrassegnate con la sigla "GS MJG" su un lato e piatte dall'altro

6) variazione di tipo II n. B.II.a.3 b.2 - Modifiche nella composizione (eccipienti) del prodotto finito. Altri eccipienti. Modifiche qualitative o quantitative di uno o più eccipienti suscettibili di avere un impatto significativo sulla sicurezza, sulla qualità o sull'efficacia del medicinale:

Compresse 150 mg

DA			A		
3.2.P.1.2 Composition			3.2.P.1.2 Composition		
Ingredients	Quantity mg/tablet	Specification	Ingredients	Quantity mg/tablet	Specification
Active Ingredient: Ranitidine Hydrochloride (Granulated)	168.0*	BP /In house	Active Ingredient: Ranitidine Hydrochloride	168.0*	PhEur
Other Ingredients			Other Ingredients		
Monosodium citrate anhydrous	838.0	In House	Monosodium citrate anhydrous	818.0	PhEur
Sodium Bicarbonate	834.0	PhEur	Sodium Bicarbonate	814.0	PhEur
Aspartame	30.0	PhEur	Aspartame	30.0	PhEur
Povidone K30	40.0	BP	Povidone K30	40.0	PhEur
Sodium Benzoate	60.0	PhEur	Sodium Benzoate	100.0	PhEur
Orange Flavour 'IFF no 6'	20.0	In House	Orange Flavour 'IFF no 6'	20.0	In House
Grapefruit flavour 'IFF 18 C 222'	10.0	In House	Grapefruit flavour 'IFF 18 C 222'	10.0	In House
* Equivalent to 150mg ranitidine base.			* Equivalent to 150mg ranitidine base.		



Comprese 300 mg

DA			A		
3.2.P.1.2 Composition			3.2.P.1.2 Composition		
Ingredients	Quantity mg/tablet	Specification	Ingredients	Quantity mg/tablet	Specification
Active Ingredient: Ranitidine Hydrochloride (Granulated)	336.0*	BP /In House	Active Ingredient: Ranitidine Hydrochloride	336.0*	PhEur
Other Ingredients			Other Ingredients		
Monosodium citrate anhydrous	1222.4	In House	Monosodium citrate anhydrous	1177.3	PhEur
Sodium Bicarbonate			Sodium Bicarbonate		
Aspartame	1216.6	PhEur	Aspartame	1171.7	PhEur
Povidone K30	45.0	PhEur	Povidone K30	45.0	PhEur
Sodium Benzoate	60.0	BP	Sodium Benzoate	60.0	PhEur
Orange Flavour 'IFF no 6'	90.0	PhEur	Orange Flavour 'IFF no 6'	180.0	PhEur
Grapefruit flavour 'IFF 18 C 222'	30.0	In House	Grapefruit flavour 'IFF 18 C 222'	30.0	In House
	15.0	In House		15.0	In House
* Equivalent to 300mg ranitidine base.			* Equivalent to 300mg ranitidine base.		

7) variazione di tipo II n. B.II.b.3.b - Modifica nel procedimento di fabbricazione del prodotto finito. Modifiche importanti nel procedimento di fabbricazione della sostanza attiva, suscettibili di avere un impatto significativo sulla qualità, la sicurezza o l'efficacia del medicinale;

8) variazione di tipo I n. B.II.b.4.a Modifica della dimensione del lotto del prodotto finito. Sino a 10 volte superiore alla dimensione attuale approvata:

Comprese 150 mg

DA	A
3.2.P.3.2. Batch Formula	3.2.P.3.2. Batch Formula
450kg and 600kg	850kg

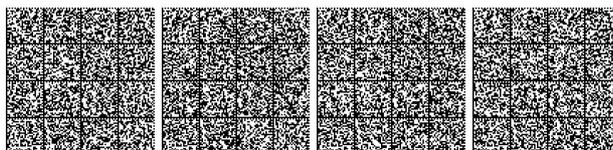


Comprese 300 mg

DA	A
3.2.P.3.2. Batch Formula 450kg and 600kg	3.2.P.3.2. Batch Formula 829kg

9) variazioni di tipo I n. B.II.b.5 - Modifica delle prove in corso di fabbricazione o dei limiti applicati durante la fabbricazione del prodotto finito:

DA	A																							
<p>3.2.P.3.4 Control of Critical Steps and Intermediates</p> <p>Dried granules</p> <p>After drying check that the loss on drying at 60° C of the dried granules is ≤ 0.5% w/w.</p> <p>Action limits applied to Zantac Effervescent Tablets during compression</p> <table border="1"> <thead> <tr> <th rowspan="2">Test</th> <th colspan="2">Limit</th> </tr> <tr> <th>150mg</th> <th>300mg</th> </tr> </thead> <tbody> <tr> <td>Mean weight</td> <td>2.0g ± 2.5%</td> <td>3.0g ± 2.5%</td> </tr> <tr> <td>Weight uniformity</td> <td>2.0g ± 5%</td> <td>3.0g ± 5%</td> </tr> <tr> <td>Thickness</td> <td>4.0 to 4.3mm</td> <td>4.7 to 4.9mm</td> </tr> <tr> <td>Crushing strength</td> <td>≥ 5.0</td> <td>≥ 5.5</td> </tr> <tr> <td>Disintegration time</td> <td>≠ 3 minutes</td> <td>≠ 3 minutes</td> </tr> <tr> <td>Equilibrium relative humidity</td> <td>≠ 30%</td> <td>≠ 30%</td> </tr> </tbody> </table> <p>The frequency of testing may vary depending on the compression machine and its normal operating speed (but will be at intervals not exceeding 60 minutes).</p> <p>To assure uniformity of weight, twenty individual tablets are sampled and weighed regularly throughout the compression run. Crushing strength, disintegration time, thickness and equilibrium relative humidity of the tablets are measured regularly throughout the compression run.</p> <p>Appropriate action will be taken as necessary to ensure that these tablet parameters do not fall outside permitted tolerances.</p>	Test	Limit		150mg	300mg	Mean weight	2.0g ± 2.5%	3.0g ± 2.5%	Weight uniformity	2.0g ± 5%	3.0g ± 5%	Thickness	4.0 to 4.3mm	4.7 to 4.9mm	Crushing strength	≥ 5.0	≥ 5.5	Disintegration time	≠ 3 minutes	≠ 3 minutes	Equilibrium relative humidity	≠ 30%	≠ 30%	<p>3.2.P.3.4 Control of Critical Steps and Intermediates</p> <p>Granulation</p> <p>Loss on drying 70°C/15 min NMT 0.3%</p> <p>Equilibrium relative humidity NMT 20%</p> <p>Blending</p> <p>Yield effervescent granules 97-102%</p> <p>Final blend</p> <p>Loss on drying 70°C/15 min NMT 0.35%</p> <p>Equilibrium relative humidity NMT 25%</p> <p>Compression</p> <p>-150 mg Strength</p> <p>Appearance Round, flat bevel edged tablet; engraved "GS LHK"</p> <p>Colour White to pale yellow</p> <p>Diameter 20 mm ± 0.3mm</p> <p>Height 4.0 – 4.4 mm</p> <p>Resistance to crushing Not less than 60 N</p> <p>Disintegration NMT 5 min</p> <p>Mean Weight 2.0 g ± 3% (mean)</p> <p>Uniformity of dosage units</p> <p>- 2.0 g ± 5% (not less than 18 of 20)</p> <p>- 2.0 g ± 10% (not less than 20 of 20)</p>
Test		Limit																						
	150mg	300mg																						
Mean weight	2.0g ± 2.5%	3.0g ± 2.5%																						
Weight uniformity	2.0g ± 5%	3.0g ± 5%																						
Thickness	4.0 to 4.3mm	4.7 to 4.9mm																						
Crushing strength	≥ 5.0	≥ 5.5																						
Disintegration time	≠ 3 minutes	≠ 3 minutes																						
Equilibrium relative humidity	≠ 30%	≠ 30%																						



	-300 mg Strength
Appearance	Round, flat bevel edged tablet; engraved "GS MJG"
Colour	White to pale yellow
Diameter	23 mm ± 0.3mm
Height	4.7 – 5.1 mm
Resistance to crushing	Not less than 60 N
Disintegration	NMT 5 min
Mean Weight	3.0 g ± 3% (mean)
Uniformity of dosage units	
	- 3.0 g ± 5% (not less than 18 of 20)
	- 3.0 g ± 10% (not less than 20 of 20)
Primary packaging	
Visual testing	Clean, intact
Coding batch number	Corresponds
Coding expiry date	Corresponds
Quality coding	Legible
Secondary packaging	
Primary units per finished pack	Corresponds
Leaflet	
	Present
Visual testing of finished package	Clean, intact
Coding batch number	
	Corresponds
Coding expiry date	Corresponds
Quality of coding	Legible

Inoltre, si esprime parere favorevole alla variazione di tipo I N1B/2010/4687:



Comprese 150 mg

DA		A	
3.2.P.5.1 Specifications_Release		3.2.P.5.1 Specifications_Release	
Test	Limit	Test	Limit
Description	White to pale yellow, round, flat, bevel edged tablets	Description ¹	White to pale yellow, round, bevelled tablet marked "GS LHK" on one side and flat on the other
Test for identity by HPLC	The principal peak in the HPLC chromatogram of the sample corresponds with the peak produced by a reference standard of ranitidine hydrochloride	Identity of Ranitidine Hydrochloride by HPLC	The principal peak in the HPLC chromatogram of the sample corresponds with the peak produced by a reference standard of ranitidine hydrochloride. The UV spectrum obtained with the sample solution compares to that of the reference substance.
pH of solution	6.0 - 6.5	by UV	
Disintegration time	Complies with the requirements of the European Pharmacopoeia	pH of solution	6.0 - 6.5
Uniformity of weight	Complies with the requirements of the European Pharmacopoeia	Disintegration time	Complies with Ph.Eur. NMT 5 minutes
Water content (% w/w)	≠ 0.5	Uniformity of Dosage Units	Complies with Ph.Eur.
Residual solvents by GC (% w/w)	≠ 0.2	Loss on Drying	NMT 0.5%*
Related impurities by TLC (% w/w of nominal ranitidine content)		Related impurities by HPLC (% w/w of nominal Ranitidine content)	
Principal impurity		RRT 0.66	
Second impurity		Any other impurity	NMT 0.2
Total impurities	≠ 0.5 ≠ 0.3 ≠ 1.0	Total impurities	NMT 0.2 NMT 0.5
Ranitidine content by HPLC (% of label claim)	95 - 105	Assay	95 - 105% L.S.
		Ranitidine content by HPLC	142.5 - 157.5 mg / tablet
		Microbial Contamination**	
		Total aerobic microbial count	Complies with Ph.Eur.
		Total yeast and mould count	Not greater than 10 ³ cfu/g
		<i>Escherichia coli</i>	Not greater than 10 ² cfu/g Absent in 1 g
		* For the control of water and ethanol	
		** The test is not routinely performed. A minimum of two batches will be tested annually during release testing. During stability studies the tests will be performed at the beginning and annually thereafter	

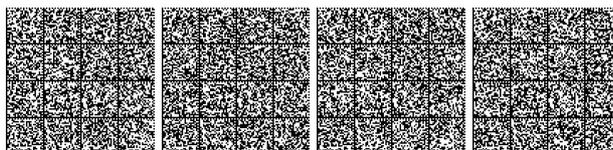


DA		A	
3.2.P.5.1 Specifications_Shelf Life		3.2.P.5.1 Specifications_Shelf Life	
Test	Limit	Test	Limit
Description	White to pale yellow, round, flat, bevel edged tablets	Description ¹	White to pale yellow, round, bevelled tablet marked "GS LHK" on one side and flat on the other
Test for identity by HPLC	The principal peak in the HPLC chromatogram of the sample corresponds with the peak produced by a reference standard of ranitidine hydrochloride	Identity of Ranitidine Hydrochloride by HPLC	The principal peak in the HPLC chromatogram of the sample corresponds with the peak produced by a reference standard of ranitidine hydrochloride.
Disintegration time	Complies with the requirements of the European Pharmacopoeia	by UV	The UV spectrum obtained with the sample solution compares to that of the reference substance.
Uniformity of weight	Complies with the requirements of the European Pharmacopoeia	Disintegration time	Complies with Ph.Eur. NMT 5 minutes
Related impurities by TLC (% w/w of nominal ranitidine content)		Uniformity of Dosage Units	Complies with Ph.Eur.
Principal impurity	≠ 0.7	Loss on Drying	NMT 0.5%*
Second impurity	≠ 0.5	Related impurities by HPLC (% w/w of nominal Ranitidine content)	
Total impurities	≠ 1.5	RRT 0.66	
Ranitidine content by HPLC (% of label claim)	95 – 105	Any other impurity	NMT 0.5
		Total impurities	NMT 0.2
		Assay	95 – 105% L.S.
		Ranitidine content by HPLC	142.5 – 157.5 mg / tablet
		Microbial Contamination**	
		Total aerobic microbial count	Complies with Ph.Eur.
		Total yeast and mould count	Not greater than 10 ³ cfu/g
		<i>Escherichia coli</i>	Not greater than 10 ² cfu/g Absent in 1 g
		* For the control of water and ethanol	
		** The test is not routinely performed. A minimum of two batches will be tested annually during release testing. During stability studies the tests will be performed at the beginning and annually thereafter	



Comprese 300 mg

DA		A	
3.2.P.5.1 Specifications_Release		3.2.P.5.1 Specifications_Release	
Test	Limit	Test	Limit
Description	White to pale yellow, round, flat, bevel edged tablets	Description ¹	White to pale yellow, round, bevelled tablet marked "GS MJG" on one side and flat on the other
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pH of solution	6.0 - 6.5	by UV	
Disintegration time	Complies with the requirements of the European Pharmacopoeia	pH of solution	6.0 - 6.5
Uniformity of weight	Complies with the requirements of the European Pharmacopoeia	Disintegration time	Complies with Ph.Eur. NMT 5 minutes
Water content (% w/w)	≲ 0.5	Uniformity of Dosage Units	Complies with Ph.Eur.
Residual solvents by GC (% w/w)	≲ 0.2	Loss on Drying	NMT 0.5%*
Related impurities by TLC (% w/w of nominal ranitidine content)		Related impurities by HPLC (% w/w of nominal Ranitidine content)	
Principal impurity	≲ 0.5	RRT 0.66	
Second impurity	≲ 0.3	Any other impurity	NMT 0.2
Total impurities	≲ 1.0	Total impurities	NMT 0.5
Ranitidine content by HPLC (% of label claim)	95 - 105	Assay	95 - 105% L.S.
		Ranitidine content by HPLC	285.0 - 315.0 mg / tablet
		Microbial Contamination**	
		Total aerobic microbial count	Complies with Ph.Eur.
		Total yeast and mould count	Not greater than 10 ³ cfu/g
		<i>Escherichia coli</i>	Not greater than 10 ² cfu/g Absent in 1 g
		* For the control of water and ethanol	
		** The test is not routinely performed. A minimum of two batches will be tested annually during release testing. During stability studies the tests will be performed at the beginning and annually thereafter	



DA		A	
3.2.P.5.1 Specifications_Shelf Life		3.2.P.5.1 Specifications_Shelf Life	
Test	Limit	Test	Limit
Description	White to pale yellow, round, flat, bevel edged tablets	Description ¹	White to pale yellow, round, bevelled tablet marked "GS MJG" on one side and flat on the other
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Disintegration time	Complies with the requirements of the European Pharmacopoeia	by UV	
Uniformity of weight	Complies with the requirements of the European Pharmacopoeia	Disintegration time	Complies with Ph.Eur. NMT 5 minutes
Related impurities by TLC (% w/w of nominal ranitidine content)		Uniformity of Dosage Units	Complies with Ph.Eur.
Principal impurity	≠ 0.7	Loss on Drying	NMT 0.5%*
Second impurity	≠ 0.5	Related impurities by HPLC (% w/w of nominal Ranitidine content)	NMT 0.5 NMT 0.2 NMT 1.0
Total impurities	≠ 1.5	RRT 0.66	
Ranitidine content by HPLC (% of label claim)	95 – 105	Any other impurity	
		Total impurities	
		Assay	95 – 105% L.S.
		Ranitidine content by HPLC	285.0 – 315.0 mg / tablet
		Microbial Contamination**	Complies with Ph.Eur.
		Total aerobic microbial count	Not greater than 10 ³ cfu/g
		Total yeast and mould count	Not greater than 10 ² cfu/g
		<i>Escherichia coli</i>	Absent in 1 g
		* For the control of water and ethanol	
		** The test is not routinely performed. A minimum of two batches will be tested annually during release testing. During stability studies the tests will be performed at the beginning and annually thereafter	

relativamente alla specialità medicinale indicata in oggetto e alle confezioni sotto elencate:

024448072 - «150 mg compresse effervescenti» 20 compresse; 024448096 - «300 mg compresse effervescenti» 10 compresse.

I lotti già prodotti possono essere mantenuti in commercio fino alla data di scadenza indicata in etichetta.

La presente determinazione ha effetto dal giorno successivo a quello della sua pubblicazione nella *Gazzetta Ufficiale* della Repubblica italiana.

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