

List of Studies

4S	Scandinavian Simvastatin Survival Study ⁴³⁵	number of cardiovascular events per year	28458
ACAS	Asymptomatic Carotid Atherosclerosis Study ⁵⁰⁵	number of cardiovascular events per year	20458
AFCAPS/TexCAPS	Air Force/Texas Coronary Atherosclerosis Prevention Study ²⁰⁷	number of cardiovascular events per year	20458
ALLHAT	Antihypertensive and Lipid Lowering Treatment to Prevent Heart Attack Trial ¹⁰¹¹	number of cardiovascular events per year	20458
ARIC	Atherosclerosis Risk in Communities ²⁵³	number of cardiovascular events per year	20458
AVERT	Atorvastatin Versus Revascularization Trial ⁴⁷⁰	number of cardiovascular events per year	20458
BECAIT	Bezafibrate Coronary Atherosclerosis Intervention Trial ¹⁵⁴	number of cardiovascular events per year	20458
beFIT	Boeing Employees Fat Intervention Trial ⁶²⁶	number of cardiovascular events per year	20458
BIP	Bezafibrate Infarction Prevention Study ¹⁵³	number of cardiovascular events per year	20458
CARE	Cholesterol and Recurrent Events Trial ⁴³⁶	number of cardiovascular events per year	20458
CARET	Beta-Carotene and Retinol Efficacy Trial ⁷⁵²	number of cardiovascular events per year	20458
CARS	Coronary Artery Regression Study Group ¹¹¹³	number of cardiovascular events per year	20458
CASANOVA	Carotid Artery Stenosis with Asymptomatic Narrowing: Operation Versus Aspirin ⁵⁰⁷	number of cardiovascular events per year	20458
CCAIT	Canadian Coronary Atherosclerosis Intervention Trial ⁴³¹	number of cardiovascular events per year	20458
CDP	Coronary Drug Project ¹⁴¹	number of cardiovascular events per year	20458
CHAOS	Cambridge Heart Antioxidant Study ⁷⁵³	number of cardiovascular events per year	20458
CIS	Multicenter Coronary Intervention Study ¹¹⁴	number of cardiovascular events per year	20458
CLAS	Cholesterol Lowering Atherosclerosis Study ¹⁵⁷	number of cardiovascular events per year	20458
CURVES	Comparative dose efficacy study of atorvastatin versus simvastatin, pravastatin, lovastatin and fluvastatin in patients with hypercholesterolemia ⁸¹³	number of cardiovascular events per year	20458
DAIS	Diabetes Atherosclerosis Intervention Study ¹⁵⁶	number of cardiovascular events per year	20458
DART	Diet and Reinfarction Trial ⁷³²	number of cardiovascular events per year	20458
DCCT	Diabetes Control and Complications Trial ¹⁹⁸	number of cardiovascular events per year	20458
DELTA	The Delta Study ⁶²⁵	number of cardiovascular events per year	20458
DISC	Dietary Intervention Study in Children ⁶²⁸	number of cardiovascular events per year	20458
ECST	European Carotid Surgery Trial ^{500, 503}	number of cardiovascular events per year	20458
EXCEL	Expanded Clinical Evaluation of Lovastatin ⁸¹⁶	number of cardiovascular events per year	20458
FATS	Familial Atherosclerosis Treatment Study ¹⁵⁸	number of cardiovascular events per year	20458
HARP	Harvard Atherosclerosis Reversibility Project ¹¹¹⁵	number of cardiovascular events per year	20458
HATS	HDL Atherosclerosis Treatment Study ¹⁵⁹	number of cardiovascular events per year	20458
Heidelberg	Heidelberg ¹¹⁶	number of cardiovascular events per year	20458
Helsinki	Helsinki Heart Study ^{139, 411, 412}	number of cardiovascular events per year	20458
HERS	Heart and Estrogen/progestin Replacement Study ⁴⁹³	number of cardiovascular events per year	20458
HOPE	Heart Outcomes Prevention Evaluation Study ^{510, 745}	number of cardiovascular events per year	20458
INTACT	International Nifedipine Trial on Antiatherosclerotic Therapy ¹¹¹⁷	number of cardiovascular events per year	20458
LAARS	LDL-Apheresis Atherosclerosis Regression Study ⁴⁶⁸	number of cardiovascular events per year	20458
LCAS	Lipoprotein and Coronary Atherosclerosis Study ⁹⁷⁷	number of cardiovascular events per year	20458
Lifestyle	Lifestyle Heart Trial ¹¹¹⁸	number of cardiovascular events per year	20458
LIPID	Long-term Intervention with Pravastatin in Ischaemic Disease ²⁰⁶	number of cardiovascular events per year	20458
LOCAT	Lipid Coronary Angiography Trial ¹⁵⁵	number of cardiovascular events per year	20458
LRC-CPPT	Lipid Research Clinics Coronary Primary Prevention Trial ¹⁰⁰⁸	number of cardiovascular events per year	20458
MAAS	Multicentre Anti-Atheroma Study ⁴⁸³	number of cardiovascular events per year	20458

1. General Information

1.1. Name of the product: **Glucophage®**
1.2. Active ingredients: **Metformin Hydrochloride**
1.3. Strength: **500 mg**
1.4. Indication: **Type 2 Diabetes Mellitus**
1.5. Dosage form: **Tablet**
1.6. Expiry date: **12/2023**

1.7. Storage conditions: **Store in a cool dry place, away from direct sunlight and heat.**
1.8. Special instructions: **Do not take if you have a history of liver problems or kidney problems. Do not drink alcohol while taking this medicine. If you are pregnant or planning to become pregnant, tell your doctor before taking this medicine.**

1.9. Side effects: **Common side effects include nausea, vomiting, diarrhea, constipation, and abdominal pain. Less common side effects may include weight loss, fatigue, and changes in taste perception.**

1.10. Contraindications: **This medicine is contraindicated in patients with known or suspected liver disease, severe kidney impairment, and those who are allergic to metformin.**

2. Detection

2.1. Qualitative detection: **Visual inspection of the tablet surface for color, shape, and texture.**

2.2. Quantitative detection: **High-Performance Liquid Chromatography (HPLC) analysis of the tablet extract.**

2.3. Reference standard: **Metformin Hydrochloride reference standard (LDI).**

2.4. Procedure: **Sample preparation involves dissolving the tablet in a suitable solvent and filtering the solution. The filtrate is then analyzed by HPLC using a column and detector specific for metformin. The chromatogram shows a single peak at the expected retention time, corresponding to the reference standard.**

2.5. Results: **The quantitative analysis shows a mean percentage of 98.5% ± 1.5% of the labeled dose.**

2.6. Conclusion: **The results indicate that the tablet is within acceptable limits for content uniformity and is suitable for therapeutic use.**

3. References

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|d OCLCQ |d OCLCO |d OCLCF |d OCLCO |d PRB |d MTG |d ZAS |d OCLCQ |d ATVS
|d IBO |d CSA |d CSJ |d TFH |d UIU |d NJR |d OCLCQ |d CSAIL |d OKS |d CAHUS
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|d OCLCO |d DCHAUA |d CUI |d OCLCO |d OCLCA |d LGG |d W2U |d NZHMA |d U3G
|d YOU |d L2U |d AGL
042 __ |a nsdp |a pcc
049 __ |a AGLL
070 __ |a RC681.A1 |b C8
210 0_ |a **Circulation** |b (N.Y.N.Y.)
222 0_ |a **Circulation** |b (New York, N.Y.)
245 00 |a **Circulation.**
260 __ |a [Dallas, Tex., etc.], |b [American Heart Association, etc.]
300 __ |a volumes |b illustrations |c 28 cm
310 __ |a Weekly (except the first two weeks in Jan. and the last two weeks in Dec.), |b <Apr.
8, 2003->
321 __ |a Monthly, |b 1950-
336 __ |a text |b txt |2 rdacontent
337 __ |a unmediated |b n |2 rdamedia
338 __ |a volume |b nc |2 rdacarrier
362 0_ |a v. 1- Jan. 1950-
510 2_ |a Chemical abstracts |x 0009-2258
525 __ |a Has annual supplements with titles: Cardiovascular surgery, 1962-, and: Abstracts,
1964- ; also has occasional additional supplements.
525 __ |a Supplements for 1962-63 and <1982> lack "supplement" in title.
525 __ |a Supplements for 1987- also called: **Circulation** monograph, no. 1-
555 __ |a Vols. 1-52, 1950-75. 1 v.
580 __ |a Includes: Hypertension, v. 12 (published as Aug. 1964 supplement), which is also
available separately.
580 __ |a Some supplements also issued as: American Heart Association monograph, 1962-85;
and, Monograph (American Heart Association), 1986.
588 __ |a Latest issue consulted: Vol. 107, no. 14 (Apr. 15, 2003).
650 _0 |a Cardiology |v Periodicals.
650 _0 |a Cardiovascular system |v Periodicals.
650 _0 |a Hypertension |v Periodicals.
650 _7 |a Cardiology. |2 fast |0 (OCoLC)fst00847121
650 _7 |a Cardiovascular system. |2 fast |0 (OCoLC)fst00847172
650 _7 |a Hypertension. |2 fast |0 (OCoLC)fst00965831
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710 2_ |a American Heart Association.
710 2_ |a American Heart Association. |t Abstracts.

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776 08 |i Online version: |t **Circulation** (Online) |x 1524-4539 |w (DLC)sn 99003671
|w (OCOlc)38425031
787 1_ |t American Heart Association monographs |x 0065-8499 |w (DLC)sf 81001017
|w (OCOlc)1695120
787 1_ |t Hypertension |x 0073-425X |w (DLC)sn 79005036 |w (OCOlc)1643474
787 1_ |t Monograph (American Heart Association) |x 0891-320X |w (DLC)sn 86003055
|w (OCOlc)13757741
850 __ |a CPT |a DLC |a InU |a MBCo |a MSobPR |a N |a NjR |a OU
930 __ |a 20200626 |b 00000000 |c 00000000
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150 __ |a Cardiology |v Periodicals

667 __ |a Record generated for validation purposes.

670 __ |a Work cat.: Circulation journal, [2002-

906 __ |t 8888 |u te00 |v 0

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053 _0 |a QL835 |b QL841 |c Comparative anatomy

053 _0 |a QM178 |b QM197 |c Human anatomy

150 __ |a Cardiovascular system

360 __ |j subdivision |a Cardiovascular system |j under individual animals and groups of animals, e.g. |a Fishes--Cardiovascular system

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