French National Agency for Medicines and Health Products Safety

CERTIFICATE NUMBER: 16MPP050HFR03

CERTIFICATE OF GMP COMPLIANCE OF A MANUFACTURER

Part 1

Issued following an inspection in accordance with:

Art. 111(5) of Directive 2001/83/EC as amended

The competent authority of France confirms the following:

The manufacturer: **EURISO-TOP**

Site address: CEA Saclay, Bâtiment 547 Extension, Gif-sur-Yvette, 91191 CEDEX, France

Is an active substance manufacturer that has been inspected in accordance with Art. 111(1) of Directive 2001/83/EC.

From the knowledge gained during inspection of this manufacturer, the latest of which was conducted on **2016-06-22**, it is considered that it complies with:

• The principles of GMP for active substances ³ referred to in Article 47 of Directive 2001/83/EC.

This certificate reflects the status of the manufacturing site at the time of the inspection noted above and should not be relied upon to reflect the compliance status if more than three years have elapsed since the date of that inspection. However, this period of validity may be reduced or extended using regulatory risk management principles by an entry in the Restrictions or Clarifying remarks field. This certificate is valid only when presented with all pages and both Parts 1 and 2. The authenticity of this certificate may be verified in EudraGMDP. If it does not appear, please contact the issuing authority.

IMPORTANT:

Due to the restrictions caused by COVID-19, the period of validity of MIA's, WDA's, GMP and GDP certificates is automatically extended until the end of 2021. On-site inspections will resume as soon as there is a consensus that the period of the public health crisis has passed. The clarifying remark section of individual MIA's, WDA's, GMP and GDP certificates will indicate any exceptions. Competent authorities reserve the right to inspect a manufacturing site should the need arise.

¹ The certificate referred to in paragraph 111(5) of Directive 2001/83/EC and 80(5) of Directive 2001/82/EC, shall also be required for imports coming from third countries into a Member State.

² Guidance on the interpretation of this template can be found in the Help menu of EudraGMDP database.

³ These requirements fulfil the GMP recommendations of WHO.

Part 2

Manufacture of active substance. Names of substances subject to inspection:

OCTANOIC ACID [1-13C](en)

(2-OCTANOYL [1-13C]) - 1.3 DISTEAROYL GLYCEROL(en)

D-GLUCOSE [6,6-**D**2](en)

GLYCEROL [1,1,2,3,3-D5](en)

L-LEUCINE [1-13C](en)

L-LEUCINE [5,5,5-D3](en)

METHACETIN [METHOXY 13C](en)

UREA [13C](en)

3. MANUFACTURING OPERATIONS - ACTIVE SUBSTANCES

Active Substance :D-GLUCOSE [6,6-D2]

3.5	General Finishing Steps
	 3.5.2 Primary Packaging (enclosing / sealing the active substance within a packaging material which is in direct contact with the substance) 3.5.3 Secondary Packaging (placing the sealed primary package within an outer packaging material or container. This also includes any labelling of the material which could be used for
	identification or traceability (lot numbering) of the active substance)
3.6	Quality Control Testing
	3.6.1 Physical / Chemical testing

Active Substance :OCTANOIC ACID [1-13C]

3.1	Manufacture of Active Substance by Chemical Synthesis
	3.1.1 Manufacture of active substance intermediates
	3.1.2 Manufacture of crude active substance
	3.1.3 Salt formation / Purification steps:
	Distillation
3.5	General Finishing Steps
	3.5.2 Primary Packaging (enclosing / sealing the active substance within a packaging material
	which is in direct contact with the substance)
	3.5.3 Secondary Packaging (placing the sealed primary package within an outer packaging
	material or container. This also includes any labelling of the material which could be used for
	identification or traceability (lot numbering) of the active substance)

3.6 Quality Control Testing

3.6.1 Physical / Chemical testing

Active Substance :(2-OCTANOYL [1-13C]) - 1.3 DISTEAROYL GLYCEROL

3.1	Manufacture of Active Substance by Chemical Synthesis	
	3.1.2 Manufacture of crude active substance	
	3.1.3 Salt formation / Purification steps:	
	Recrystallization	

2.5	Conoral Finishing Stone		
3.5	General Finishing Steps		
	3.5.2 Primary Packaging (enclosing / sealing the active substance within a packaging material		
	which is in direct contact with the substance)		
	3.5.3 Secondary Packaging (placing the sealed primary package within an outer packaging		
	material or container. This also includes any labelling of the material which could be used for		
3.6	identification or traceability (lot numbering) of the active substance)		
3.0	Quality Control Testing		
	3.6.1 Physical / Chemical testing		
Activ	Active Substance :GLYCEROL [1,1,2,3,3-D5]		
3.1	Manufacture of Active Substance by Chemical Synthesis		
	3.1.1 Manufacture of active substance intermediates		
	3.1.2 Manufacture of crude active substance		
	3.1.3 Salt formation / Purification steps:		
	Distillation		
3.5	General Finishing Steps		
	3.5.2 Primary Packaging (enclosing / sealing the active substance within a packaging material		
	which is in direct contact with the substance)		
	3.5.3 Secondary Packaging (placing the sealed primary package within an outer packaging		
	material or container. This also includes any labelling of the material which could be used for		
	identification or traceability (lot numbering) of the active substance)		
3.6	Quality Control Testing		
	3.6.1 Physical / Chemical testing		
	e Substance :L-LEUCINE [1-13C]		
3.1	Manufacture of Active Substance by Chemical Synthesis		
	3.1.1 Manufacture of active substance intermediates		
	3.1.2 Manufacture of crude active substance		
	3.1.3 Salt formation / Purification steps:		
	Precipitation (pH) and washing		
3.5	General Finishing Steps		
	3.5.2 Primary Packaging (enclosing / sealing the active substance within a packaging material		
	which is in direct contact with the substance)		
	3.5.3 Secondary Packaging (placing the sealed primary package within an outer packaging		
	material or container. This also includes any labelling of the material which could be used for		
	identification or traceability (lot numbering) of the active substance)		
3.6	Quality Control Testing		
	3.6.1 Physical / Chemical testing		
Activ	e Substance :L-LEUCINE [5,5,5-D3]		
3.1	Manufacture of Active Substance by Chemical Synthesis		
	3.1.2 Manufacture of crude active substance		
	3.1.3 Salt formation / Purification steps:		
Online Eu	draGMDP , Ref key :56073 Issuance Date :2019-09-05 Signatory : Confidential Page 3 of 5		

	Recrystallization	
3.5	General Finishing Steps	
	3.5.2 Primary Packaging (enclosing / sealing the active substance within a packaging material which is in direct contact with the substance) 3.5.3 Secondary Packaging (placing the sealed primary package within an outer packaging material or container. This also includes any labelling of the material which could be used for identification or traceability (lot numbering) of the active substance)	
3.6	Quality Control Testing	
	3.6.1 Physical / Chemical testing	
	e Substance :METHACETIN [METHOXY 13C]	
3.1	Manufacture of Active Substance by Chemical Synthesis	
	3.1.2 Manufacture of crude active substance3.1.3 Salt formation / Purification steps:Recrystallization	
3.5	General Finishing Steps	
	 3.5.2 Primary Packaging (enclosing / sealing the active substance within a packaging material which is in direct contact with the substance) 3.5.3 Secondary Packaging (placing the sealed primary package within an outer packaging material or container. This also includes any labelling of the material which could be used for identification or traceability (lot numbering) of the active substance) 	
3.6	Quality Control Testing	
	3.6.1 Physical / Chemical testing	
	e Substance :UREA [13C]	
3.1	Manufacture of Active Substance by Chemical Synthesis	
	3.1.2 Manufacture of crude active substance3.1.3 Salt formation / Purification steps:Recrystallization	
3.5	General Finishing Steps	
	3.5.2 Primary Packaging (enclosing / sealing the active substance within a packaging material which is in direct contact with the substance) 3.5.3 Secondary Packaging (placing the sealed primary package within an outer packaging material or container. This also includes any labelling of the material which could be used for identification or traceability (lot numbering) of the active substance)	
3.6	Quality Control Testing	
	3.6.1 Physical / Chemical testing	

Clarifying remarks (for public users)

see page 1 for validity

Period of validity of the certificate extended to 21/06/2020 / Signatory: Mrs Linda Gallais, head of starting materials inspection department --- The ANSM does not issue hard copies of good practices certificates

2019-09-05 see page 1 for validity

Name and signature of the authorised person of the Competent Authority of France

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French National Agency for Medicines and Health Products Safety

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Fax: Confidential



Issuance Date :2019-09-05

Signatory : Confidential