

Product specification

Oxygen Complex LS 9641

PRD 30531430

Valid since	19.06.2017
Revision	75.0
WF-No.	9233
Page	1 of 5

® = registered trademark of BASF in many countries ™ = Trademark of BASF

Care Chemicals**Characteristic values**

The specifications stated in the paragraphs 'Provisional quality control data' and 'Provisional additional product descriptive data' finally and conclusively describe the properties of the product.

Physical form: Powder**Provisional quality control data**

(Data which is used for quality release and is certified for each batch.)

Test property	Specification	Test method
Organoleptic characteristics	Fine powder, clear beige with characteristic odor	PR. 47
Microbiological test – Total germs	≤ 100 CFU/g	Ph. Eur. 2.6.12
Microbiological test – Pathogens	Absence	Ph. Eur. 2.6.13
Microbiological test – Negative gram	Absence	Ph. Eur. 2.6.13
pH (solution at 1 %)	6.5 - 7.5	PR. 14
Solubility (in water at 1 %)	Soluble	PR. 147
Ultra-violet spectrum (258 nm; aqueous solution at 0.02 %)	Conform (see data below)	PR. 13
Amino-acids: Characterization / TLC	Conform (see data below)	
Total nitrogen (SW: 0.5 g)	1.00 - 2.00 %	PR. 19
Total glucose / HPLC (solution at 2.5 %)	8.00 - 12.00 %	PR. 111 + PR. 178
Mannitol / HPLC (aqueous solution at 0.4 %)	58.00 - 62.00 %	PR. 111
Glycogen characterization / Iodine (solution at 2.5 %)	Positive	PR. 102

Storage information**Shelf life**

24 months

Storage temperature

Between + 10 °C and + 30 °C.

Storage conditions

In original sealed containers and protected from moisture



We create chemistry

Product specification

Oxygen Complex LS 9641

PRD 30531430

Valid since	19.06.2017
Revision	75.0
WF-No.	9233
Page	2 of 5

® = registered trademark of BASF in many countries ™ = Trademark of BASF

Care Chemicals

Intended for use as cosmetic ingredient

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of the risk. The data are controlled at regular intervals as part of our quality assurance program.

SELLER MAKES NO WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, BY FACT OR LAW, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

This is a computer generated document. It is valid without signature.

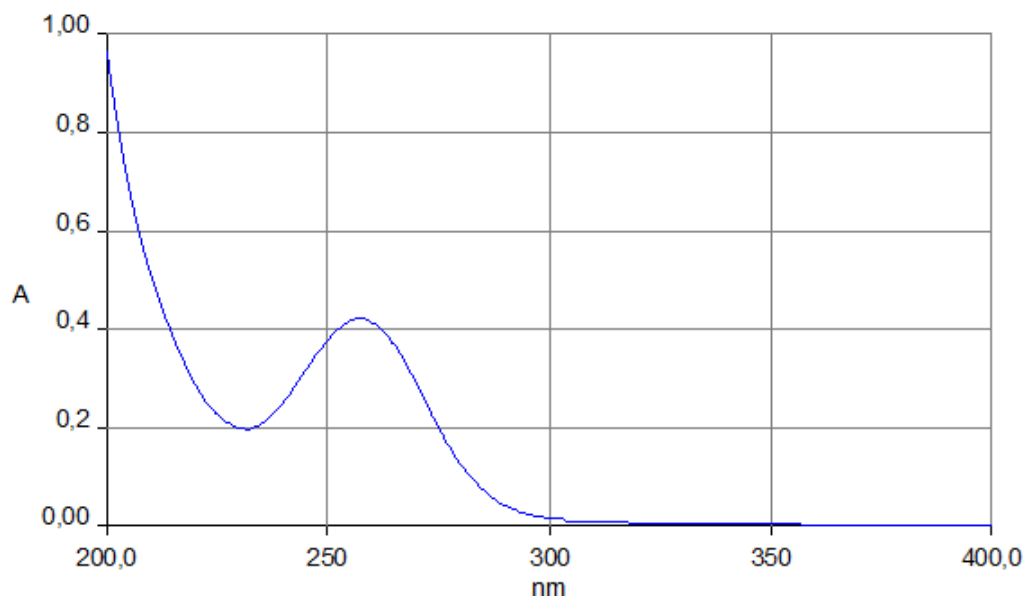
Product specification

Oxygen Complex LS 9641

PRD 30531430

Valid since 19.06.2017
Revision 75.0
WF-No. 9233
Page 3 of 5

® = registered trademark of BASF in many countries ™ = Trademark of BASF

Care Chemicals**ULTRA-VIOLET SPECTRUM****STANDARD:**

Product : Oxygen Complex LS 9641 (L010669)
aqueous solution at 0.02%
Threshold : 0.0050
Wavelength : nm
Absorbency : A

No.	Wavelength	Absorbency	Type
1	257.23	0.4232	Peak

Product specification

Oxygen Complex LS 9641

PRD 30531430

Valid since	19.06.2017
Revision	75.0
WF-No.	9233
Page	4 of 5

® = registered trademark of BASF in many countries ™ = Trademark of BASF

Care Chemicals**AMINO-ACIDS: Characterization / TLC****I - SAMPLE PREPARATION :**

Extraction of amino acids on a cation-exchange-resin (Amberlite IR 120H).

- In a 50 ml tube, introduce:

- 2 g of Amberlite IR 120 H
- 100 mg of the product at 20% in distilled water
- 10 ml of the mixture [Ethanol - Water - Acetic acid]
[85 15 5]

- Keep on stirring for 1 hour.

- Eliminate the liquid phase and wash the resin with distilled water until the water is clear.

- Eliminate the distilled water and add 10 ml of a 2N Ammonia solution to the resin.

- Mix well and stir up for 15 minutes.

- Evaporate 1 ml of the ammonia phase.

- Dissolve the residue of evaporation in 100 µl of [Isopropanol - Water]
[80 20]

- The sample so prepared is used for TLC.

II - THIN LAYER CHROMATOGRAPHY:**- Stationary phase:**

Silica gel
10 x 10 cm precoated plate
Merck art 5628

- Mobile phase:

Chloroform	40
Methanol	40
Ammonia solution 32 %	20

- Sample volume applied:

5 µl

Product specification

Oxygen Complex LS 9641

PRD 30531430

Valid since	19.06.2017
Revision	75.0
WF-No.	9233
Page	5 of 5

® = registered trademark of BASF in many countries ™ = Trademark of BASF

Care Chemicals**- Development:**

7 cm

- Revealing phase:

Spray the ninhydrin solution at 0.5 % in ethanol, then
heat at 120°C for 15 minutes.

III - RESULT :