



INNOVHUB
STAZIONI SPERIMENTALI
PER L'INDUSTRIA

innovazione e ricerca



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Determination of the Flash Point on the sample **HYDROLYZED PROTEINS**

GLP study No.: 507
Study Plan No.: 1901531
Report No.: 1901531
Study date: March 25th, 2019
Acceptation date: April 2nd, 2019
Test date:
A.9 – Flash Point: April 16th, 2019
Report date: April 17th, 2019
Best before date of the counter-sample: February 18th, 2024

Antonella Mazzei

Antonella Mazzei
STUDY DIRECTOR

10/05/19

Date

Angelo Lunghi

Angelo Lunghi
TEST FACILITY MANAGER

13/05/19

Date

GLP Study No.	507 of 2019
Report No.	1901531
Issue date:	May 10 th , 2019
Pages of the report:	11

Sponsor and Test Facility

Sponsor

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36072 Chiampo
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Test Facility

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Table of Contents

Sponsor and Test Facility	2
Table of Contents	3
Compliance with Good Laboratory Practice.....	4
Quality Assurance Statement	5
Summary	6
1. Introduction.....	7
1.1 Objective	7
1.2. Test Method and Regulatory Requirements.....	7
1.3. Study schedule	7
1.4. Key Personnel.....	7
1.5. Archive	7
2. Test Item.....	8
3. Flash-Point (EC Method A.9).....	9
3.1 Definition and units	9
3.2 Apparatus.....	9
3.3 Procedure	9
3.4 Results	9
3.5 Conclusion	9
Annex 1: Certificate of Analysis	10
Annex 2: Stazione Sperimentale Combustibili GLP Compliance Statement.....	11

Compliance with Good Laboratory Practice

Determination of the Flash Point on the sample *HYDROLYZED PROTEINS*

This study was conducted by Laboratorio Sicurezza of Innovhub – Stazioni Sperimentali per l'Industria S.r.l. – Area Combustibili, under the direction of Antonella Mazzei in compliance with Study Plan No. 1901531, and Good Laboratory Practice Standards reported in Italian Legislative Decree (D.L. No. 50 dated March 2nd, 2007), as published in G.U. No. 86 of April 13th, 2007, and in compliance with Organisation for Economic Co-operation and Development (OECD) Principles of Good Laboratory Practice (GLP) [C(97) 186 (Final)].

We declare that the final report No. 1901531, dated April 16th, 2019 was made according to the previously cited decree.

Antonella Mazzei

Antonella Mazzei
Study Director
Innovhub – Stazioni Sperimentali per l'Industria S.r.l.
Area Combustibili

10/05/19

Date

Quality Assurance Statement

Determination of the Flash Point on the sample *HYDROLYZED PROTEINS*

Referring to study No. 1901531, dated March 25th, 2019, on the determination of the flash point according to Good Laboratory Practice (GLP), on the sample labelled as *HYDROLYZED PROTEINS*, we declare, according to D.L.G. No. 50 of March 2nd, 2007 reported in the G.U.R.I. of 13.04.2007, that Laboratorio Sicurezza Industriale is periodically controlled by internal audits to verify the right application of Good Laboratory Practice on the tests on chemical substances.

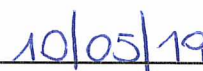
Laboratory performs short studies, so audits on quality assurance are mostly based on procedures.

The study plan was verified on April 2nd, 2019, and the report was examined on May 10th, 2019, accordingly to the principles of the fore mentioned decree.

The results in this report completely and faithfully reflect the raw data generated by the study.



Silvia Bertagna
Quality Assurance Manager
Innovhub – Stazioni Sperimentali per l'Industria S.r.l.
Area Combustibili



Date

Summary

A study was performed to determine the flash point according to Good Laboratory Practice (GLP), on the sample labelled as *HYDROLYZED PROTEINS*.

The study was conducted in compliance with:

- Method A.9 – Flash point;
- Method ISO 3679:2015 Determination of flash no-flash and flash point - Rapid equilibrium closed cup method.

According to test method A.9, the sample labelled as *HYDROLYZED PROTEINS* does not ignite and turns off the test flame at 81.0°C. The sample labelled *HYDROLYZED PROTEINS* is not flammable.

1. Introduction

1.1 Objective

This study was designed to determine the flash point of the sample labelled as *HYDROLYZED PROTEINS*.

Innovhub – Stazioni Sperimentali per l'Industria S.r.l. – Area Combustibili accepted the study on April 2nd, 2019, as stated in the Study Plan No. 1901531.

1.2. Test Method and Regulatory Requirements

The study was conducted in compliance with:

- Method A.9 – Flash point;
- Method ISO 3679:2015 Determination of flash no-flash and flash point - Rapid equilibrium closed cup method.

1.3. Study schedule

Study initiation date:	<i>March 25th, 2019</i>
Experimental start date:	<i>April 16th, 2019</i>
Experimental completion date:	<i>April 16th, 2019</i>

1.4. Key Personnel

Study Director:	<i>Antonella Mazzei</i>
Quality Assurance:	<i>Silvia Bertagna</i>
Technician:	<i>Carlo Gambino</i>
Sponsor's Representative on behalf of the Sponsor:	<i>Anna Cazzaniga</i>

1.5. Archive

Raw data and a copy of the final report are stored for a period of 10 years, starting from the final report date, as stated in the procedures. The counter-sample is stored until February 2024, best before date recommended by the Sponsor.

2. Test Item

BPL number:	507
LIMS number:	1901531
Batch number:	19070125
Manufacturing date:	February 18 th , 2019
Expiry date:	February 18 th , 2024
Name:	HYDROLYZED PROTEINS
Appearance:	Liquid
Colour:	Brown coloured
Odour:	Characteristic
Container:	1000 ml bottle with cap

The composition of sample labelled as *HYDROLYZED PROTEINS* is reported in the Certificate of Analysis (Annex 1).

3. Flash-Point (EC Method A.9)

3.1 Definition and units

The flash point is the lowest temperature, corrected to a pressure of 101.3 kPa, at which the test liquid evolves vapours, under defined conditions defined in the test method, in such an amount that a flammable vapour/air mixture is produced in the test vessel.

The flash point will be reported in units of degrees Celsius (°C).

3.2 Apparatus

The apparatus is Setaflash Series 7 - Model 71000-0 tester [Cat.III-2702].

3.3 Procedure

The flash point was determined using Setaflash closed cup apparatus according to ISO 3679:2015 (Determination of flash no-flash and flash point - Rapid equilibrium closed cup method).

A portion of specified volume was introduced in the test cup, which was maintained at the test temperature. After a specified time a test flame was applied and the presence or absence of the flash point was determined in duplicate at atmospheric pressure.

3.4 Results

The measurements were carried out at 1006 mbar atmospheric pressure.

Two tests were performed and the same behaviour was observed in both determinations the sample labelled as *HYDROLYZED PROTEINS* does not ignite and turns off the test flame at 81.0°C. The sample labelled *HYDROLYZED PROTEINS* is not flammable.

3.5 Conclusion

According to test method A.9, the sample labelled as *HYDROLYZED PROTEINS* does not ignite and turns off the test flame at 81.0°C. The sample labelled *HYDROLYZED PROTEINS* is not flammable.

Annex 1: Certificate of Analysis

Soggetto a direzione e coordinamento da parte di INTESA HOLDING S.p.A. iscritta al Reg. Imprese di VI al n° 01905000244



SICIT CHEMITECH S.p.A.

Capitale soc. int. vers. € 1.000.000,00

Società Unipersonale
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E-mail: mail@sicitchemitech.it - HTTP: //www.sicitchemitech.it

CERTIFICATO DI ANALISI N. 19002638

Prodotto: HYDROLYSED PROTEINS
Codice: 110568 DO.LA.11
Lotto: 19070125
Data di produzione: 18/02/2019
Data di scadenza: 18/02/2024
Destinazione: EUROFINS BIOLAB S.r.l.
Data di spedizione: 18/03/2019
Confezionamento: campione per analisi di laboratorio

PARAMETRI	RISULTATI ANALITICI VALORI	UNITA' DI MISURA	METODO	SPECIFICHE
Aspetto	Conforme			liquido bruno
Solubilità	>1000	g/l	EPA830-7840	
Sostanza Secca	59,4	% p/p	TGA01	≥ 58,0
Densità	1,27	g/ml	DEN01	
Azoto totale	7,60	% p/p	CNLECO01	
Azoto ammoniacale	0,55	% p/p	N03	
Azoto organico	7,05	% p/p	calcolo	≥ 6,50
Carbonio totale	24,4	% p/p	CNLECO01	≥ 20,0
Aminoacidi liberi	9,23	% p/p	HP02	
Aminoacidi totali	44,1	% p/p	calcolo	
Ceneri	10,6	% p/p	TGA01	
Calcio	0,24	% p/p	HP04	
Sodio	4,07	% p/p	HP04	
Cloruri	3,92	% p/p	HP04D	
Solfati	1,08	% p/p	HP04D	
pH sol. al 10%	6,43		PH01	≥ 6,00 ≤ 7,00

Note:

APPROVATO

Data 15/03/2019

Responsabile Controllo Qualità
Elia Franco

15/03/2019

Pagina 1 di 1

Annex 2 Stazione Sperimentale Combustibili GLP Compliance Statement*Ministero della Salute*D.G. DELLA PREVENZIONE SANITARIA
UFFICIO IV**CERTIFICATO DI CONFORMITA'
AI PRINCIPI DELLA BUONA PRATICA DI
LABORATORIO**

(Decreto Legislativo 02 marzo 2007, n. 50 – Direttiva 2004/9/CE)

Certificazione: 2017/32
Data di rilascio: 16/11/2017

Ai sensi dell'articolo 4 comma 1 del Decreto Legislativo n. 50 del 2 marzo 2007, degli articoli 3, 4 e 5 del decreto ministeriale 13 gennaio 2016, e tenuto conto dell'esito favorevole dell'ispezione effettuata in data 01/03/2017 – 02/03/2017

SI CERTIFICA

che il Centro di Saggio: INNOVHUB - STAZIONI SPERIMENTALI PER L'INDUSTRIA - DIVISIONE STAZIONE SPERIMENTALE PER I COMBUSTIBILI – Via Galileo Galilei, 1 – 20097 – San Donato Milanese (MI)

è idoneo ad effettuare test nel rispetto dei principi della Buona Pratica di Laboratorio di cui all'allegato II del citato decreto legislativo, nelle seguenti aree di competenza:

1) SAGGI FISICO-CHEMICI

*Ministry of Health*D.G. FOR HEALTH PREVENTION
OFFICE IV**CERTIFICATE OF COMPLIANCE
WITH THE PRINCIPLES OF GOOD LABORATORY
PRACTICE**

(Legislative Decree Nr. 50, March 2nd 2007 – Directive 2004/9/EC)

Certificate: 2017/32
Date of issuance: 16/11/2017

In accordance with article 4(1) of Legislative Decree nr. 50 of March 2nd, 2007, articles 3, 4 and 5 of Italian Ministry Decree of January 13th, 2016, and in consideration of the positive result from the inspection conducted on 01/03/2017 – 02/03/2017

IT IS HEREBY CERTIFIED

that the Test Facility: INNOVHUB - STAZIONI SPERIMENTALI PER L'INDUSTRIA - DIVISIONE STAZIONE SPERIMENTALE PER I COMBUSTIBILI – Via Galileo Galilei, 1 – 20097 – San Donato Milanese (MI)

is eligible to carry out tests in compliance with the principles of Good Laboratory Practice laid down in the Annex II of mentioned Legislative Decree, within the following areas of expertise:

1) PHYSICAL-CHEMICAL TESTING