



BRACHI TESTING SERVICES

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srl unipersonale

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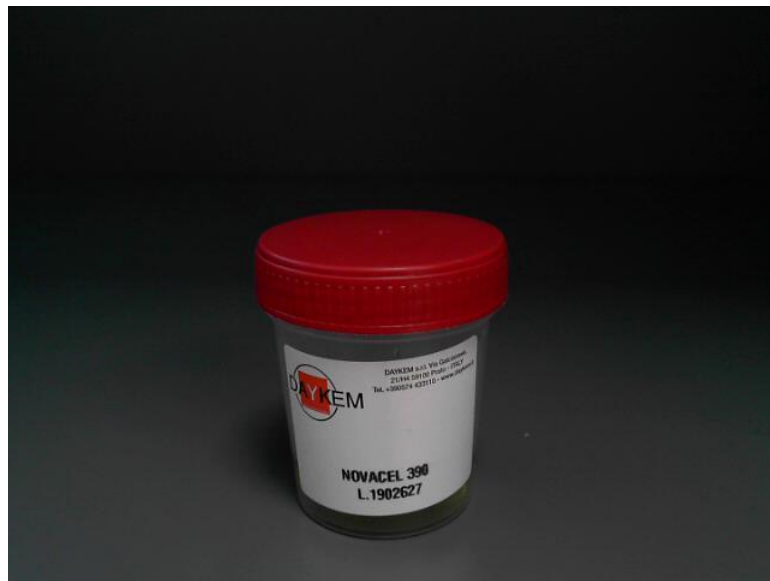
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RAPPORTO DI PROVA N°: Test Report N°:	004908/20
DITTA PRESENTATRICE: Company:	DAYKEM SRL - VIA GALCIANESE, 21/H-4 - PRATO (PO)
CAMPIONE: Sample:	Liquid named STYLE NOVACEL 390 L.1902627.
CAMPIONAMENTO: Sampling:	Made by the customer
DATA RICEVIMENTO: Date of Receipt:	February 26, 2020
DATA ESECUZIONE PROVE: Test execution date:	From the date of receipt to the date of issue
OGGETTO: Subject:	Various Analysis

RISULTATI DI LABORATORIO

TEST RESULTS

ZDHC MRSL Conformance Level 1 version 1.1



Remarks: The sample is conforms to the ZDHC MRSL version 1.1

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The declared results refer solely to the samples received and not to the batch that they represent.

The analysed samples will be kept for three months.

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IL DIRETTORE
P.I. Primo Brachi



INTER
2014
094
WOOLLABS
AIR-FLOW
MICROPROJECTION
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ZDHC MRSL Conformance Level 1

Certification Expiry date: 18/03/2021

Application or use of the chemical formulations: Enzyme preparation for biofinishing treatment on cellulosic fibres and stone -washed on denim fabrics and garments.

Concentration of the key base ingredient: CAS N. 9012-54-8 $\geq 3\%$ - $<5\%$
CAS N. 64-19-7 $\geq 3\%$ - $<5\%$
CAS N. 2634-33-5 900 ppm

CHAPTER 1: MRSL for Textiles and Coated textiles processing

CAS No.	Substance	Group B: Chemical Supplier Commercial Formulation Limit	Conforms / NOT conform
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers			
104-40-5 11066-49-2 25154-52-3 84852-15-3	Nonylphenol (NP), mixed isomers	250 ppm	Conform
140-66-9 1806-26-4 27193-28-8	Octylphenol (OP), mixed isomers	250 ppm	Conform
9002-93-1 9036-19-5 68987-90-6	Octylphenol ethoxylates (OPEO)	500 ppm	Conform
9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	Nonylphenol ethoxylates (NPEO)	500 ppm	Conform
Glycols			
111-96-6	Bis(2-methoxyethyl)-ether	50 ppm	Conform
110-80-5	2-ethoxyethanol	50 ppm	Conform
111-15-9	2-ethoxyethyl acetate	50 ppm	Conform
110-71-4	Ethylene glycol dimethyl ether	50 ppm	Conform
109-86-4	2-methoxyethanol	50 ppm	Conform
110-49-6	2-methoxyethylacetate	50 ppm	Conform
70657-70-4	2-methoxypropylacetate	50 ppm	Conform
112-49-2	Triethylene glycol dimethyl ether	50 ppm	Conform

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*DETERMINATION OF ALKYLPHENOLS AND ALKYLPHENOL POLYETHOXYLATES IN TEXTILE DYEING AND FINISHING AUXILIARIES – LC/MS METHOD

Process:

Results:

APEOs

Test Method: GB/T 23972:2009, ISO 18218-1:2015

Extraction with methanol for 60 min at 70°C in ultrasonic bath, filtration and liquid chromatography determination with mass detector (LC/MS/MS)

Compounds	CAS	mg/kg
Nonylphenol polyethoxylates (NPEO 3-18)	68412-54-4, 9016-45-9, 127087-87-0, 37205-87-1, 26027-38-3	N.D.
Octylphenol polyethoxylates (OPEO 3-16)	9002-93-1, 68987-90-6, 9036-19-5	N.D.

Note: N.D = not determinable (< LOD)
Detection Limit (LOD): 15 mg/kg
Limit of Quantification (LOQ): 150 mg/kg

APs

Test Method: GB/T 23972:2009

Extraction with methanol in ultrasonic bath, filtration and liquid chromatography determination with mass detector (LC/MS/MS).

Compounds	CAS	mg/kg
Nonylphenols (NP)	84852-15-3, 25154-52-3, 104-40-5, 11066-49-2	N.D.
Octylphenols (OP)	140-66-9, 1806-26-4, 27193-28-8	N.D.

Note:
N.D = not detectable (< LOD)
Detection Limit (LOD): 10 mg/kg
Limit of Quantification (LOQ): 100 mg/kg

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*DETERMINATION OF GLYCOLS

Process :

Test method : Internal Method
extraction and LC/MS analysis

Results:

ANALYTE	CAS	RESULTS (mg/kg)
Bis(2-methoxyethyl)ether/bis(2-metossietil etere)	111-96-6	N.D
2-ethoxyethanol/2-etossietanolo	110-80-5	N.D
2-ethoxyethyl acetate/2-etossietil acetato	111-15-9	N.D
Ethyleneglycoldimethyl ether/etilene glicol dimetil etere	110-71-4	N.D
2-methoxy ethanol/2-metossietanolo	109-86-4	N.D
2-methoxyethyl acetate/2-metossietilacetato	110-49-6	N.D
2-methoxypropyl acetate/2-metossipropil acetato	70657-70-4	N.D
Triethyleneglycol dimethyl ether/trietilene glicol dimetil etere	112-49-2	N.D

Note:

N.D = not detectable (< LOD)

Detection Limit (LOD): 1,0 mg/kg

Limit of Quantification (LOQ): 10 mg/kg

Prato, 18 marzo 2020

P.I. Primo Brachi
Direttore



END OF TEST REPORT

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