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Date
13 July 2015

Our ref.
392-2015-00198501RevA

Test Report – ISO 11890-2 / ASTM D6886

Sample material

Sample identification	BIOTECH TIPO 1		
Product type	Water based paint		
Batch No.	01		
Production date	15/06/2015		
Product data	Density: 1.37 g/ml	(Information from client)	
Date received	26/06/2015		
Analytical period	06/07/2015 – 09/07/2015		

Methods applied

Method	Principle	Parameter	Reporting limit	Uncertainty (U _m)
EU Directive 42/2004/EC ISO 11890-2 (2013) ASTM D6886-12	GC/MS and GC/FID	Content of volatile organic compounds (VOC) in paints and varnishes	1 g/l	20 %

Volatile Organic Compounds (VOC) include all organic compounds with an initial boiling point less than or equal to 250°C measured at standard pressure of 101,3 kPa.

The determination is performed in conformity with ISO 11890-2 and the Commission Decision 2014/312/EU of 28 May 2014 establishing the ecological criteria for the award of the EU Ecolabel for indoor and outdoor paints and varnishes, with its most recent amendments and its most recent User Manual.

Analyses are performed with a slightly polar gas chromatographic column (HP-5). Mass spectrometric detector is used for identification and flame ionization detector is used for quantification. Identified VOCs are quantified with their authentic response factors, or with their relative response factors using 1,2-diethoxyethane as internal standard. Remaining unknown VOC peaks are quantified in diethyl adipate equivalents.

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Analytical results

392-2015-00198501	CAS	Content, g/l
Unidentified *	-	4.2
Total VOC	-	4.2

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Analytical Chemist

*)Not accredited

The expanded uncertainty U_m equals 2 x RSD%

The test results relate only to the items tested.

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