



**TEST REPORT**  
**IMMEDIATE BIODEGRADABILITY DETERMINATION BY CARBON DIOXIDE**  
**MEASUREMENT RELEASED IN A CLOSED SYSTEM**  
**B2-031810.M**

<b>Customer:</b>	DETEN QUÍMICA S/A
<b>Address:</b>	R. Hidrogênio, 1744 – Complexo Industrial 42810-000 Camaçari-BA
<b>Ecolyzer Protocol:</b>	031810.M
<b>Beginning of the Process:</b>	21 July 2015
<b>Receipt of the sample:</b>	21 July 2015
<b>Beginning of the Test</b>	07 August 2015
<b>End of the Test:</b>	04 September 2015
<b>Issue of the report:</b>	01 October 2015
<b>Sample:</b>	SAMPLE NO. 018/15 (LAB)
<b>Declared Chemical Composition</b>	Linear Alkylbenzene with Carbon Chain Lengths c10-c13
<b>Quantity of the sample received (mL or g):</b>	680.00
<b>Batch/Validity/Declared Manufacture:</b>	LDT-0069-2015 17 June 2016 17 June 2015
<b>Quantity of sample used:(mL or g)</b>	1

### METHODOLOGY

The sample was incubated in amber flasks with mineral and innocuous media for 28 days. The readings were performed in pre-established days with the titration of CO<sub>2</sub> dissolved in barium hydroxide until the turning point. The negative controls were analyzed in parallel.

POP-LFQ 59.04. Test for Determining the Immediate Biodegradability – Closed system

### TEST CONDITIONS

Incubation temperature: 24-25 C°

Incubation time: 28 days

### ANALYTICAL TECHNIQUE

Titration Techniques

### RESULTS

The sample presented a biodegradability degree of 86.80%.

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**ACCEPTANCE CRITERIA**

The sample must reach a minimum biodegradation of 60% in 10 days after reaching 10% of the initial biodegradation.

The control using glucose must present a minimum of 60% of CO<sub>2</sub> theoretical release in a 10-day interval after reaching 10% of biodegradation.

The inhibition test must reach a minimum release of 25% of CO<sub>2</sub> at the same interval and conditions referring to the biodegradable control (glucose).

The opinions and interpretation expressed below are not part of the accreditation scope of this laboratory.

**DETAILED CONCLUSION**

The sample was considered easily biodegradable.

- The results refer solely and exclusively to the tested items.
- Samples prepared by the customer
- The samples were analyzed as received; the laboratory being exempt from any responsibility referring to the procedures and sampling data, preservation and issue of samples.
- This report complies with the requirements of the NBR ISSO/IEC 17025, which ensures the traceability of the data that were generated in the test.
- The partial reproduction of this Report is forbidden. The reproduction of parts requires Ecolyzer written approval.
- Bibliographic References: OECD – Guideline for testing of Chemicals – 301B CO<sub>2</sub> Evolution Test – Ready Biodegradability – 1992 – CETESB. Project 83.04.00 Development and Implementation of Tests for the evaluation of the biodegradability and bioconcentration of chemical agents. São Paulo, October 1990.

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