



GOVERNO DO ESTADO DE SÃO PAULO
SECRETARIA DE AGRICULTURA E ABASTECIMENTO
AGÊNCIA PAULISTA DE TECNOLOGIA DOS AGRONEGÓCIOS
INSTITUTO DE TECNOLOGIA DE ALIMENTOS

Statement

CETEA 3283/14

The polyethylene resin, identified by the interested party as "SPB681", which is manufactured by Braskem S.A., at III Pólo Petroquímico – Via Oeste – Lote 5 Passo Raso – Triunfo – Rio Grande do Sul, has been assessed regarding the physicochemical tests (buffering capacity, nonvolatile residue and residue on ignition and lead) and identification by infrared spectroscopy and thermal analysis (DSC), based on the requirements established by **United States Pharmacopeia (USP 37)** published in the Chapter <661> Containers – Plastics - Physicochemical Tests and **Brazilian Pharmacopeia 5th edition** - Chapter 6.2 - Plastics Packaging. The lead content was quantified by atomic emission spectrometry induced by plasma. This test was conducted in replacement to the heavy metal test established by American and Brazilian Pharmacopeias. The results are described in Test Report CETEA 12.154/14 from August 20th, 2014, elaborated for Braskem S.A..

Based on the achieved results, as far as the buffering capacity, nonvolatile residue and heavy metal (lead) tests are concerned, is in accordance to the requirements established in the Chapter <661> Containers – Plastics - Physicochemical Tests of the **United States Pharmacopeia (USP 37)** and **Brazilian Pharmacopeia 5th edition** - Chapter 6.2 - Plastics Packaging.

The identification of the resin by infrared spectroscopy and thermal analysis (DSC) confirmed the sample as low density polyethylene.

In case there is any doubt, the Portuguese version of the Test Report RE 12.154/14 and Statement 3283/14 prevails.

Campinas, August 27th, 2014.

Paulo Henrique M. Kiyataka
Researcher

Assis E. Garcia
Substitute Manager - Metallic
and Glass Packages

DMAM

Translation



CENTRO DE PESQUISA E DESENVOLVIMENTO DE EMBALAGENS
(CENTRO DE TECNOLOGIA DE EMBALAGEM)
Av. Brasil, 2880 • CEP 13.070-178 • Campinas/SP • Brasil
Tel. 19 3743-1900 • Fax 19 3241-8445
<http://www.cetea.ital.sp.gov.br>

ITAL

SGQ Certificado
ISO 9001