

# Test Report

No. BR1703700 Rev. 1

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ROSSET ARTES GRAFICAS E EDITORA S.A.

RAPOSO TAVARES

CONJUNTO RESIDENCIAL BUTANTÃ

SÃO PAULO

SÃO PAULO BRASIL

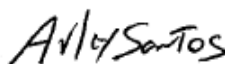
**\*\* This Amended Report cancels and supersedes the Report No.BR1703700 dated 09/27/17 issued by SGS \*\***

|                                     |                                          |
|-------------------------------------|------------------------------------------|
| SGS Order No. :                     | 4510-24251-1                             |
| Proposal Number :                   | CRS L-34186.51273.17 REV.03              |
| Total of Sample :                   | 01 SAMPLE                                |
| Sample receiving condition at SGS : | BOX                                      |
| Brand :                             | ROSSET                                   |
| Sample date of Manufactured :       | 07/31/17                                 |
| Sampling Date :                     | 08/07/17                                 |
| Country of Origin :                 | BRAZIL                                   |
| Lot Number :                        | OS 12.314                                |
| Manufacturer :                      | ROSSET ARTES GRAFICAS EDITORA S/A        |
| Food/Drink in Contact :             | AQUOSO ACIDS / AQUOSO NON-ACID AND FATTY |
| Date of Sample Received :           | 18 Aug 2017                              |
| Testing Period :                    | 21 Aug 2017 - 27 Sep 2017                |
| Test Requested :                    | Selected test(s) as requested by client. |
| Test Method :                       | Please refer to next page(s).            |
| Test Results :                      | Please refer to next page(s).            |

Signed for and on behalf of  
SGS do Brasil Ltda.



Simone da Costa Morgado dos Reis  
Laboratory Manager CRQ 04261979



Arley Santos Ferreira Leite  
Laboratory Supervisor CRQ 04471856

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Test Results :

## Test Part Description

| Item No. | SGS Sample ID | Description                                                |
|----------|---------------|------------------------------------------------------------|
| 1        | BR1703700.001 | PAPEL CARTÃO SBS + PET + TINTA OFFSET + VERNIZ BASE D'ÁGUA |

## Overall Migration - 95% Ethanol (V/V) aqueous solution

Methodology : CRS 2441/13 rev04; EN 1186:2002  
Legislation : ANVISA Resolutions RDC No. 51, 2010 and RDC No. 105, 1999  
Notes : 95% Ethanol (V/V) aqueous solution = Simulant D - Simulant of Fatty Foods  
For expanded uncertainty considered k=2 and approximately 95% level of confidence.

**ID Sample :BR1703700.001** PAPEL CARTÃO SBS + PET + TINTA OFFSET + VERNIZ BASE D'ÁGUA

**Test Condition: 5°C by 240h, in sequence 60°C by 3h.**

Simulant Used : 95% Ethanol (V/V) aqueous solution

| Test Item(s)      | Specification | Unit               | MQL   | Test result | Uncertainty |
|-------------------|---------------|--------------------|-------|-------------|-------------|
| Overall migration | Max. 8.000    | mg/dm <sup>2</sup> | 1.000 | 1.525       | ± 0.107     |

## Overall Migration - Deionized Water

Methodology : CRS 2441/13 rev04; EN 1186:2002  
Legislation : ANVISA Resolutions RDC No. 51, 2010 and RDC No. 105, 1999  
Notes : Deionized water = Simulant A - Not Acid Aqueous Food (pH>4,5)  
For expanded uncertainty considered k=2 and approximately 95% level of confidence.

**ID Sample :BR1703700.001** PAPEL CARTÃO SBS + PET + TINTA OFFSET + VERNIZ BASE D'ÁGUA

**Test Condition: 5°C by 240h, in sequence 100°C by 1h.**

Simulant Used : Deionized Water

| Test Item(s)      | Specification | Unit               | MQL   | Test result | Uncertainty |
|-------------------|---------------|--------------------|-------|-------------|-------------|
| Overall migration | Max. 8.000    | mg/dm <sup>2</sup> | 1.000 | ND          | NA          |

## Migration of Substances that Confer Colouration - 3% Acetic acid (V/V) aqueous solution

Methodology : In House Method CTS 2441/03  
Legislation : ANVISA Resolution RDC No. 52, 2010  
Notes : 3% Acetic acid (V/V) aqueous solution = Simulant B - Acid Aqueous Food (pH <4.5)  
For expanded uncertainty considered k=2 and approximately 95% level of confidence.

**ID Sample :BR1703700.001** PAPEL CARTÃO SBS + PET + TINTA OFFSET + VERNIZ BASE D'ÁGUA

**Test Condition: 5°C by 240h, in sequence 100°C by 1h.**

Simulant Used : 3% Acetic acid (V/V) aqueous solution

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| <u>Test Item(s)</u>                             | <u>Specification</u> | <u>Unit</u> | <u>MQL</u> | <u>Test result</u>   | <u>Uncertainty</u> |
|-------------------------------------------------|----------------------|-------------|------------|----------------------|--------------------|
| Migration of Substances that Confer Colouration | Do not confers color | -           | -          | Do not confers color | NA                 |

## Migration of Substances that Confer Colouration - 95% Ethanol (V/V) aqueous solution

Methodology : In House Method CTS 2441/03  
Legislation : ANVISA Resolution RDC No. 52, 2010  
Notes : 95% Ethanol (V/V) aqueous solution = Simulant D - Simulant of Fatty Foods  
For expanded uncertainty considered k=2 and approximately 95% level of confidence.

**ID Sample :BR1703700.001** PAPEL CARTÃO SBS + PET + TINTA OFFSET + VERNIZ BASE D'ÁGUA

**Test Condition: 5°C by 240h, in sequence 60°C by 3h.**

Simulant Used : 95% Ethanol (V/V) aqueous solution

| <u>Test Item(s)</u>                             | <u>Specification</u> | <u>Unit</u> | <u>MQL</u> | <u>Test result</u>   | <u>Uncertainty</u> |
|-------------------------------------------------|----------------------|-------------|------------|----------------------|--------------------|
| Migration of Substances that Confer Colouration | Do not confers color | -           | -          | Do not confers color | NA                 |

## Migration of Substances that Confer Colouration - Deionized Water

Methodology : In House Method CTS 2441/03  
Legislation : ANVISA Resolution RDC No. 52, 2010  
Notes : Deionized water = Simulant A - Not Acid Aqueous Food (pH>4,5)  
For expanded uncertainty considered k=2 and approximately 95% level of confidence.

**ID Sample :BR1703700.001** PAPEL CARTÃO SBS + PET + TINTA OFFSET + VERNIZ BASE D'ÁGUA

**Test Condition: 5°C by 240h, in sequence 100°C by 1h.**

Simulant Used : Deionized Water

| <u>Test Item(s)</u>                             | <u>Specification</u> | <u>Unit</u> | <u>MQL</u> | <u>Test result</u>   | <u>Uncertainty</u> |
|-------------------------------------------------|----------------------|-------------|------------|----------------------|--------------------|
| Migration of Substances that Confer Colouration | Do not confers color | -           | -          | Do not confers color | NA                 |

## Specific Migration of Heavy Metal - 3% Acetic acid (V/V) aqueous solution

Methodology : CRS 2440/13 rev05; EN 13130:2004  
Legislation : ANVISA Resolution RDC No. 52, 2010  
For expanded uncertainty considered k=2 and approximately 95% level of confidence.

**ID Sample :BR1703700.001** PAPEL CARTÃO SBS + PET + TINTA OFFSET + VERNIZ BASE D'ÁGUA

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**Test Condition: 5°C by 240h, in sequence 100°C by 1h.**

Simulant Used : 3% Acetic acid (V/V) aqueous solution

| Test Item(s)  | CAS NO.   | Specification | Unit  | MQL    | Test result | Uncertainty |
|---------------|-----------|---------------|-------|--------|-------------|-------------|
| Antimony (Sb) | 7440-36-0 | Max. 0.040    | mg/kg | 0.005  | 0.033       | ± 0.004     |
| Arsenic (As)  | 7440-38-2 | Max. 0.010    | mg/kg | 0.005  | ND          | NA          |
| Barium (Ba)   | 7440-39-3 | Max. 1.000    | mg/kg | 0.005  | ND          | NA          |
| Boron (B)     | 7440-42-8 | Max. 0.500    | mg/kg | 0.005  | ND          | NA          |
| Cadmium (Cd)  | 7440-43-9 | Max. 0.005    | mg/kg | 0.005  | ND          | NA          |
| Zinc (Zn)     | 7440-66-6 | Max. 25.0000  | mg/kg | 0.0050 | 0.054       | ± 0.005     |
| Copper (Cu)   | 7440-50-8 | Max. 5.000    | mg/kg | 0.005  | ND          | NA          |
| Chromium (Cr) | 7440-47-3 | Max. 0.050    | mg/kg | 0.005  | ND          | NA          |
| Tin (Sn)      | 7440-31-5 | Max. 1.200    | mg/kg | 0.005  | ND          | NA          |
| Mercury (Hg)  | 7439-97-6 | Max. 0.005    | mg/kg | 0.005  | ND          | NA          |
| Silver (Ag)   | 7440-22-4 | Max. 0.050    | mg/kg | 0.005  | ND          | NA          |
| Lead (Pb)     | 7439-92-1 | Max. 0.010    | mg/kg | 0.005  | ND          | NA          |

## Specific Migration of Fluoride. - 3% Acetic acid (V/V) aqueous solution

Methodology : CRS 2440/13 rev05; EN 13130:2004

Legislation : ANVISA Resolution RDC No. 52, 2010

For expanded uncertainty considered k=2 and approximately 95% level of confidence.

**ID Sample :BR1703700.001** PAPEL CARTÃO SBS + PET + TINTA OFFSET + VERNIZ BASE D'ÁGUA

**Test Condition: 5°C by 240h, in sequence 100°C by 1h.**

Simulant Used : 3% Acetic acid (V/V) aqueous solution

| Test Item(s) | CAS NO.   | Specification | Unit  | MQL   | Test result | Uncertainty |
|--------------|-----------|---------------|-------|-------|-------------|-------------|
| Fluoride (F) | 7782-41-4 | Max. 0.500    | mg/kg | 0.050 | ND          | NA          |

### Remarks :

- (1) MQL = Method Quantification Limit
- (2) ND = Not Detected ( < MQL )
- (3) NA = Not Applicable
- (4) "-" = Not Analyzed
- (5) "--" = Analysis in Process

### Comments :

All information reported on this Test Report refers only to the analyzed sample.

The analyses were carried out on the material according to the information provided by the client, so it is the complete responsibility of the client the finding that the formulation of the material meets the Positive Lists and, where relevant, carry out complementary tests, in accordance with the current legislation.

Revision 01: Removal analysis of Total Migration of Acetic Acid 3% as requested by the client.

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**WARNING:** The opinions and interpretations expressed below are applicable only to tests in which the specification parameters are included in this report and are not part of our scope of accreditation.

## Result Summary :

| Test Requested :                                                                        | Legislation                                               | Evaluation |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------|------------|
| Overall Migration - Deionized Water                                                     | ANVISA Resolutions RDC No. 51, 2010 and RDC No. 105, 1999 | PASS       |
| Overall Migration - 95% Ethanol (V/V) aqueous solution                                  | ANVISA Resolutions RDC No. 51, 2010 and RDC No. 105, 1999 | PASS       |
| Migration of Substances that Confer Colouration - Deionized Water                       | ANVISA Resolution RDC No. 52, 2010                        | PASS       |
| Migration of Substances that Confer Colouration - 3% Acetic acid (V/V) aqueous solution | ANVISA Resolution RDC No. 52, 2010                        | PASS       |
| Migration of Substances that Confer Colouration - 95% Ethanol (V/V) aqueous solution    | ANVISA Resolution RDC No. 52, 2010                        | PASS       |
| Specific Migration of Heavy Metal - 3% Acetic acid (V/V) aqueous solution               | ANVISA Resolution RDC No. 52, 2010                        | PASS       |
| Specific Migration of Fluoride. - 3% Acetic acid (V/V) aqueous solution                 | ANVISA Resolution RDC No. 52, 2010                        | PASS       |

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\*\*\* End of Report \*\*\*

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