

STUDY

VOCHTIGE BABYDOEKJES 80 ST. FRESHNESS



1. FOREWORD

The aim of this study is to compare, on the basis of chemical and physical analysis and ability tests at use, quality level and the performances of 2 freshness baby wipes.

TESTED PRODUCTS:



BEBINO (ALDI PRODUCT)

LINGETTES BEBE FRESH & CARE + ALOE VERA X80 REF: 325-2017-00079540

Reference: ART N°2342/VOCHTIGE BABYDOEKJES 80 ST

Supplier name: SUPPLIER N°503676/HUIDIG INCARE INCARE

Batch N°: 1708075 09:40 4865

Barcode N°: 27023426



PAMPERS

LINGETTES BEBE NATURAL CLEAN X 64

REF: 325-2017-00079536

Reference: ART N°2342/VOCHTIGE BABYDOEKJES 80 ST

Supplier name: PROCTER & GAMBLE

Batch N°: 2017.06.02 L7153 449983 23:31

Barcode N°: SANS

The study is based on:

- Strip and wipes product characteristics (wipes) - Dimensional measurement - ISO 9073-2:1997-02 - (CH202)
SOP Reference: P04.1.MOP.00271.06
- Total anionics - Titrimetry - analog EN ISO 2271:1990-01 or Potentiometry - (CH156)
SOP Reference: P04.1.MOP.00135.17
- Allergens according to Regulation (EC) No 1223/2009 - GC-MS - EN 16274 mod. - (JJ606)
- Softness on impregnated paper (2 or 3 products) - (1T0GB)
SOP Reference: P04.1.MOP.02582.01
- Resistance on wipe and non woven - Mechanical - ISO 9073-3:1989-07 - (CH019)
SOP Reference: P04.1.MOP.00028.05

2. SYNTHESIS/CONCLUSION

According to the study carried out on Impregnated baby wipes, the products can be ranked as follows:

Product / Brand	Description	Quality Balance Score/5	Quality level	Strength(s)	Weakness(es)
BEBINO (ALDI PRODUCT)	LINGETTES BEBE FRESH & CARE + ALOE VERA X80 REF: 325-2017-00079540	4.4	Very satisfactory	Its resistances Its thickness Its impregnation rate	--
PAMPERS	LINGETTES BEBE NATURAL CLEAN X 64 REF: 325-2017-00079536	3.9	Satisfactory	Its resistances	Its low grammage when dry

Conclusion :

BEBINO Freshness (ALDI product) presents a very satisfactory performance level due to a significant difference in softness while a satisfactory performance

3. COMMENTS

According to this study, the following points are highlighted:

■ Performance tests

BEBINO (ALDI PRODUCT):

According to this study, the product **BEBINO** has a very satisfactory quality balance towards consumers' criteria.

Regarding its technical data sheet, this product is **in compliance**.

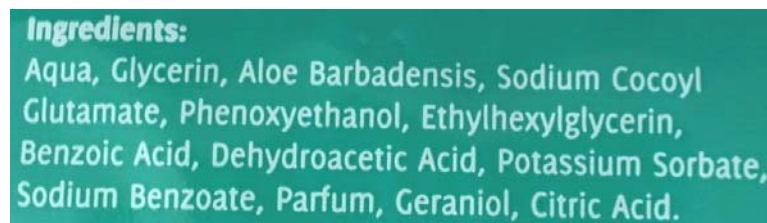
■ **IMPROVEMENT PROPOSAL PRODUCT BEBINO:**

- **Nothing to report.**

Remark:

- We will note the absence of anionics (not detected).
- We will note the presence of 2 allergens inside the lotion (the others are lower than the quantification limit):
 - Geraniol, measured at 10 mg/kg.
 - Linalool, measured at 4 mg/kg.

We will note that the amount of the allergen: Linalool is low. According to the CPR (Cosmetic Products Regulation), one allergen must be indicated on the packaging if its amount is higher than 10 mg/kg, which is not the case for this chemical. However, the allergen: Geraniol is indicated on the packaging (see picture) because its amount is the limit.



Picture 1: Labelling of the BEBINO product

PAMPERS (BENCHMARK):

According to this study, the product **PAMPERS** has a satisfactory quality balance towards consumers' criteria.

■ **IMPROVEMENT PROPOSAL PRODUCT PAMPERS:**

- **Its low grammage when dry.**

Remark:

- We will note the absence of anionics (not detected).
- We will note the absence of the allergens inside the lotion (lower than the quantification limit).

■ Softness test

According to our expert panel, assessed by 20 panellists, the study carried out on the 2 references of freshness wipes (BEBINO and PAMPERS) makes appear 2 groups of products:

- A group assessed as **satisfactory** with the reference:

BEBINO

- A group assessed as **correct** with the reference:

PAMPERS

Remark:

- We will note that the 2 references present softness with a significant difference perceived by the panellists.

4. QUALITY BALANCE

QUALITY BALANCE

FRESHNESS BABY WIPES

Marking scale

ASSESSMENT	MARKING SCALE
Very unsatisfactory	1,0 to 2,0
Unsatisfactory	2,1 to 3,0
Correct	3,1 to 3,7
Satisfactory	3,8 to 4,2
Very satisfactory	≥ 4,3

STUDY PARAMETERS		SOFTNESS	ADAPTED THICKNESS	IMPREGNATION RATE	RESISTANCES	WEIGHTED BALANCE
CONSUMER CRITERIA		46%	27%	6%	21%	
BEBINO (ALDI PRODUCT)	INCARE	4,0	4,6	5,0	5,0	4,4
PAMPERS (BENCHMARK)	PROCTER & GRAMBLE	3,5	3,6	3,9	5,0	3,9

5. RESULTS

SYNTHESIS BABY WIPES FRESHNESS

634084

634092

Brand Manufacturer	BEBINO (ALDI PRODUCT) INCARE	PAMPERS (BENCHMARK) PROCTER & GRAMBLE
Denomination	BABY WIPES FRESH & CARE ALOE VERA	BABY WIPES NATURAL CLEAN FRAGRANCE FREE
Batch n°	REF: 325-2017-00079540 X80 1708075 09:40 4865	REF: 325-2017-00079536 X 64 2017.06.02 L7153 449983 23:31
Strip and wipes product characteristics (wipes) - Dimensional measurement - ISO 9073-2:1997-02		
Type of folding	Folded in Z	Tangled in Z
Sale unit total weight g	645,1	388,8
Sale unit empty weight g	17,0	6,6
Total weight of the wet wipes g	627,2	380,7
Total weight of the dry wipes g	162,8	74,2
Number of wipes	80	64
Average length of a wet wipe (sampling) cm	19,7	16,9
Minimal length cm	19,1	16,7
Maximal length cm	20,0	17,2
Average width of a wet wipe (sampling) cm	17,3	16,6
Minimum width cm	17,2	16,2
Maximal width cm	17,4	16,8
Average length of a dry wipe (sampling) cm	19,9	16,8
Average width of a dry wipe (sampling) cm	17,0	16,4
Average weight of an impregnated wipe (sampling) g	7,8	5,8
Average weight of a dry wipe (sampling) g	2,0	1,2
Average grammage when wet (sampling) g/m²	228,9	208,2
Average grammage when dry (sampling) g/m²	59,8	42,4
Average impregnation rate %	285	413
Fluorescence at 366 nm	absence	absence
Visible thickness (10 measures at 2Kpa) mm	0,64	0,55
Total anionics - Titrimetry - analog EN ISO 2271:1990-01 or Potentiometry		
Method used	--	--
Total anionics %	Not detected	Not detected
Molecular weight g/mol	--	--
Type Total anionics	--	--
Allergens according to Regulation (EC) No 1223/2009 - GC-MS - EN 16274 mod.		
Amyl Cinnamal - CAS N°:122-40-7 mg/kg	<1	<1
Amylcinnamylalcohol - CAS N°:101-85-9 mg/kg	<1	<1
Benzylalcohol - CAS N°:100-51-6 mg/kg	<1	<1
Benzylsalicylate - CAS N°:118-58-1 mg/kg	<1	<1
Cinnamyl alcohol - CAS N°:104-54-1 mg/kg	<1	<1
Cinnamal - CAS N°:104-55-2 mg/kg	<1	<1
Citral - CAS N°:5392-40-5 mg/kg	<1	<1
Coumarin - CAS N°:91-64-5 mg/kg	<1	<1
Eugenol - CAS N°:97-53-0 mg/kg	<1	<1
Geraniol - CAS N°:106-24-1 mg/kg	10	<1
Hydroxycitronellal - CAS N°:107-75-5 mg/kg	<1	<1
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde - CAS N°:31906-04-4 mg/kg	<1	<1
Isoeugenol - CAS N°:97-54-1 mg/kg	<1	<1
Anise Alcohol - CAS N°:105-13-5 mg/kg	<1	<1
Benzylbenzoate - CAS N°:120-51-4 mg/kg	<1	<1
Benzylcinnamate - CAS N°:103-41-3 mg/kg	<1	<1
Citronellol - CAS N°:106-22-9 mg/kg	<1	<1
Farnesol - CAS N°:4602-84-0 mg/kg	<1	<1
Hexylcinnamal - CAS N°:101-86-0 mg/kg	<1	<1
Butylphenyl Methylpropional - CAS N°:80-54-6 mg/kg	<1	<1
Limonen mg/kg	<1	<1
Linalool - CAS N°:78-70-6 mg/kg	4	<1
Methyl 2-Octynoate - CAS N°:111-12-6 mg/kg	<1	<1
Alpha-Isomethyl Ionone - CAS N°:127-51-5 mg/kg	<1	<1
Evernia Furfuracea Extract (qualitative)	negative	negative
Evernia Prunastri Extract (qualitative)	negative	negative
Resistance on wipe and non woven - Mechanical - ISO 9073-3:1989-07		
Resistance maximum impregnated product (sample of reference=50 mm) machine direction daN	10,80	7,06
Resistance maximum impregnated product (sample of reference=50 mm)cross direction daN	2,85	2,39
Elongation - machine direction mm	15,73	20,92
Elongation cross direction mm	44,61	52,51

6. SOFTNESS PANEL

SOFTNESS TEST FRESHNESS

SYNTHESIS OF COMPARISONS OF THE 2 PRODUCTS

	Reference	634084 BEBINO (ALDI PRODUCT)	634092 PAMPERS
634084 BEBINO (ALDI PRODUCT)		37	
634092 PAMPERS		14	23

Significance threshold of the gaps at the risk of 5 % (test of FRIEDMAN) : 8,8

X	SUM OF THE RANKS OF THE REFERENCE
	NON-SIGNIFICANT GAP COMPARED TO THE REFERENCE
	SIGNIFICANT GAP IN FAVOUR OF THE REFERENCE
	SIGNIFICANT GAP UNFAVOURABLE TO THE REFERENCE

