

STUDY MAXI SIZE DIAPERS



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 maxi baby diapers.

TESTED PRODUCTS:



BEBINO (ALDI PRODUCT)

COUCHES TAILLE 4 MAXI 7-18 KG X 80 REF:
325-2018-00002357

Reference: ART N°2759/LUIERS MAXI 4 (7-18 KG)

Supplier name: 503760/INTIGENA HUIGIG (BEBINO)
ABSENT

Batch N°: IT M 320 08:23 17

Barcode N°: 27027592



PAMPERS BABY-DRY (BENCHMARK)

COUCHES MAXI TAILLE 4 8-16 KG X 30 REF:
325-2018-00002358

Reference: ART N°2759/LUIERS MAXI 4 (7-18KG)

Supplier name: P&G

Batch N°: 19112017 7 323 4499 78 02:56 (E)

Barcode N°: 4015400833628

The study is based on:

- Sampling and conditioning - Preparation - ISO 186 - XP ENV 12625-2 - ISO 187 - (CH03M)
SOP Reference: P04.1.MOP.06285.10
 - Hygiene products baby diapers/incontinence global characteristics - Dimensional measurement - (CH022)
SOP Reference: P04.1.MOP.00031.08
 - Mass determination (diapers and similar disposable products) - Gravimetry - NF Q 34-011:1985-12 - (CH01V)
SOP Reference: P04.1.MOP.06267.04
 - Sticking/Unsticking at 90° - Mechanical - (CH043)
SOP Reference: P04.1.MOP.00044.09
 - SCAN III absorbency day boy - Automatic test bench - (CH697)
SOP Reference: P04.1.MOP.01745.06
 - SCAN III absorbency day girl - Automatic test bench - (CH698)
SOP Reference: P04.1.MOP.01745.06
 - SCAN III night absorbency boy - Automatic test bench - (CH699)
SOP Reference: P04.1.MOP.01746.06
 - SCAN III night absorbency girl - Automatic test bench - (CH700)
SOP Reference: P04.1.MOP.01746.06
 - Protection at contact constant volume night-girl - Performance test - (CH03U)
SOP Reference: P04.1.MOP.00089.11
 - Protection at contact constant volume night-boy - Performance test - (CH03V)
SOP Reference: P04.1.MOP.00089.11
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2. SYNTHESIS/CONCLUSION

According to the study carried out on maxi size baby diapers, the products can be ranked as follows:

Product / Brand	Description	Quality Balance Score/5	Quality level	Strength(s)	Weakness(es)
BEBINO (ALDI product)	COUCHES TAILLE 4 MAXI 7-18 KG X 80 REF: 325-2018-00002357	4.7	Very satisfactory	All its parameters	--
PAMPERS BABY-DRY (BENCHMARK)	COUCHES MAXI TAILLE 4 8-16 KG X 30 REF: 325-2018-00002358	4.4	Very satisfactory	Its day and night performances	Its low pad width

CONCLUSION:

Code 0 for BEBINO (ALDI product) : comply with the technical sheet.

3. COMMENTS

According to this study, the following points are highlighted:

BEBINO (ALDI product):

According to this study, the product BEBINO (ALDI product) has a very satisfactory quality balance towards consumers' technical targets.

Regarding its technical data sheet, the product BEBINO (ALDI product) is **in-compliance**. Code 0 : according to the determinations carried out in laboratory and to the uncertainties linked to the measures, the sample presents physico-chemical characteristics conform to the specifications.

■ **IMPROVEMENT PROPOSAL BEBINO (ALDI product):**

- ***Nothing to report.***

Remark:

- *We will note the presence of the PEFC logo on the packaging of the product.*

PAMPERS BABY-DRY (BENCHMARK):

According to this study, the product PAMPERS BABY-DRY (BENCHMARK) has a very satisfactory quality balance towards consumers' technical targets.

■ **IMPROVEMENT PROPOSAL PAMPERS BABY-DRY (BENCHMARK):**

- ***Its low pad width.***

According to the study, the tested products present the following global quality balance:

- **Very satisfactory global performances balance for:**

BEBINO (ALDI product)
PAMPERS BABY-DRY (BENCHMARK)

Conclusion :

BEBINO (ALDI product) presents a very satisfactory performance level and is comparable to PAMPERS BABY-DRY (BENCHMARK)

4. QUALITY BALANCE

COMPARATIVE STUDY ON 2 REFERENCES OF BABY DIAPERS

MAXI SIZE

WEIGHTINGS			26%	16%	23%	35%	QUALITY BALANCE
EXPECTATIONS			ASPECT /COMFORT	PRACTICALITY	DAY PERFORMANCES	NIGHT PERFORMANCES	
Size 4	BEBINO (ALDI product)	BOY USE	4,4	4,3	5,0	4,8	4,7
		GIRL USE			5,0	4,8	
		UNISEX			5,0	4,8	
Size 4	PAMPERS BABY-DRY (BENCHMARK)	BOY USE	3,5	4,0	5,0	4,6	4,4
		GIRL USE			5,0	4,8	
		UNISEX			5,0	4,7	

SCALE	From 1 to 2,0	From 2,1 to 3,0	From 3,1 to 3,7	From 3,8 to 4,2	≥ 4,3
	VERY UNSATISFACTORY	UNSATISFACTORY	CORRECT	SATISFACTORY	VERY SATISFACTORY

5. RESULTS

SYNTHESIS BABY DIAPERS SIZE 4 MAXI

	653728	653509
Brand	BEBINO	PAMPERS BABY-DRY
Manufacturer	(HUIDIG ARTICLE) INTIGENA	(BENCHMARK) PROCTER & GAMBLE
Denomination	BABY DIAPERS SIZE 4 MAXI 7-18 KG X 80 REF: 325-2018-00002357	BABY DIAPERS SIZE 4 MAXI 8-16 KG X 30 REF: 325-2018-00002358
Batch n°	IT M 320 08:23 17	19112017 7 323 4499 78 02:56 (E)
Sampling and conditioning - Preparation - ISO 186 - XP ENV 12625-2 - ISO 187		
In charge of sampling	ICAT	ICAT
Date of preparation	22/01/2018	18/01/2018
Place of preparation		
Number of unit per batch	1	2
Number of sampled units	1	2
Remarks	--	--
Nominal atmosphere used for conditioning	23°C +/- 1°C ; 50%HR +/- 2%HR	23°C +/- 1°C ; 50%HR +/- 2%HR
Duration of the sample conditioning h	24	24
Realization of a pre-conditioning	No	No
Hygiene products baby diapers/incontinence global characteristics - Dimensional measurement		
Number of products per sale unit	80	30
Average thickness of the product mm	6	7
Overall length cm	47,9	45,9
Overall width cm	23,9	21,5
Pad length cm	39,2	37,5
Pad width cm	11,0	10,3
Overall width of the crotch area cm	22,4	21,0
Pad width - in the center cm	9,4	9,8
Pad width - in striction cm	8,8	9,8
Length of the adhesive cm	4,5	4,5
Width of the adhesive cm	3,0	3,0
Reinforcing strip length cm	16,4	13,7
Reinforcing strip width cm	3,7	4,0
Mass determination (diapers and similar disposable products) - Gravimetry - NF Q 34-011:1985-12		
Date of the analysis	23/01/2018	19/01/2018
Mass g	32,39	28,13
Remarks	--	--
Sticking/Unsticking at 90° - Mechanical		
Sticking/Unsticking (at 90°) on reinforcing stick daN	0,26	0,23
Average of the maximum peaks daN	0,53	0,43
SCAN III absorbency day boy - Automatic test bench		
Absorbency day boy ml	353	315
Minimum value of the acceptable difference ml	329	296
SCAN III absorbency day girl - Automatic test bench		
Absorbency day girl ml	313	298
Minimum value of the acceptable difference ml	272	267
SCAN III night absorbency boy - Automatic test bench		
Absorbency night boy ml	324	354
Minimum value of the acceptable difference ml	296	337
SCAN III night absorbency girl - Automatic test bench		
SCAN III night absorbency girl ml	367	388
Minimum value of the acceptable difference ml	352	381
Protection at contact constant volume night-girl - Performance test		
Average protection against contact dampness %	70	75
Injected volume ml	280	280
Protection at contact constant volume night-boy - Performance test		
Injected volume ml	280	280
Average protection against contact dampness %	71	66