

16

24

pH

$5 \pm 120$

230 nm      200 nm

%1

. 24

%1

\_\_\_\_\_

1963

(10)

%1

(1 10)

(3)

24

(rubber)

60

(3) 0.51

(1 )

(Hong Kong)

SAR

PVC

(6)

.(9)

(styrene)

(polycarbonate)

: (1 )

:( bisphenol A) (BPA) A

(estrogen)

(7)

(8 5)

%95

(urine)

(BPA) A

A

.(13)

:(di(2-ethyl)adipate) (DEHA)

( -2)

DEHA

:(styrene)

.(4)

(1 )

(3 2 )

:{ }



1

(4 3 2 1: ) :(1)



:(3)



:(2)

)

(1) (6).

X : (1)

(6).

Materials					Restricted Hazardous Substances
Glass	Thermoplastics	Thermoplastic elastomer (TPEs)	Silicon rubber	Vulcanized rubber	
X	X	X	X	X	Migration of certain elements
			X		Volatile compounds content
				X	2-mercaptobenzothiazole MBT release
				X	Antioxidants release butylated hydroxy toluene (BHT / 2246)
	X				BPA release
		X	X	X	N-Nitrosamines and N-Nitrosatable substances release

( 5 4 3 2 )

1-AiZhilang ALGO	
JiangYi Plastic and Rubber Products CO.LTD	
60 ml	
A-8228E	
ShangJiangYi Niansanli Town YiWu ZheJiang Phon:0086-579-85015473 Fax:0086-579-85017143 E- mail:baby@aiqier.com	
The product is qualified under the inspection of national sanitation department and has met the quality standard of Europe EN71 and USA.FDA. Enterprise passed ISO9001:2000attestation	
#AiZhilang brand feeding bottle series are produced with world leading equipments and imported raw materials. The product is known for its high transparence, light weight and solidness against distortion, its internal bottle neck is smooth and well designed to facilitate washing and cleaning. The imported lead-free ink is used to print the pattern on bottle body to ensure no poison and high safety, it can be sterilized under a high temperature up to 120 °C. #Attached with the cross-holed feeding bottle is a silica gel nipple, which is soft and elastic enough against tearing. The design of double air vents flowing eases baby's feeding efforts. #You shall wash the bottle with clean water, and sterilize it for 2 to 3 minutes in boiled water before using, you shall also check the nipples regularly and replace with new one if it is found to have the mark of biting or be loosed due to shape distortion. it is strictly forbidden to allow the baby feed by himself with the feeding bottle without an adults attention. The nipple shall not be used as a toy for your baby.	

2-APPLE	
240ml	
811A	
All silicon nipple can wear out. To prevent a possible choking hazard, test strength by pulling on bulb portion, inspect and replace if nipples become sticky, enlarged, cracked or show other signs of excessive wear, wash and boil new nipples before using. Don't heat in microwave oven: hot spots may scald baby.	
#APPLE# brand baby bottles are satisfied with the standard of health and safety inspection. The body of the bottle is made by international approval polycarbonate material which is non-toxic unbreakable and temperature resisting from 120 <sup>o</sup> C.also boilable in boiling water. Special wide-mouth design is convenient to contain liquid, smooth-neck design makes the bottle uneasy to gather dirt on the neck, easy to be cleaned up, such advantage of the bottle insures babies being healthy. Before each use, bottle should be boiled up by boiling water. Nipple:"APPLE"brand bottle nipple is made by international approval silicone rubber, pure transparent, high tension and durable, without any odor or toxin.	



3-Panberas	
240ml	
5512	
15/8/2012- 15/8/2009	
E-mail:aras@bfpig.com	
<p>Please sterilize before using,(suitable heat is necessary). Anti gas valve: Put the nipple on the screw ring and then insert valve into the nipple, press the valve firmly onto the parallel surface of nipple, then the regular amount of formula always remain in the nipple, and little space is left for air. Thus it minimizes the amount of air to be inhales and helps baby enjoy regular flow of formula.</p>	
<p>The feeding bottle is used with a unique silicone nipple and has suitable feeding speed, meanwhile make no problem for thick milk and thick milk passes easily. The feeding bottle with an anti gas regulator has been tested on some babies. By using anti gas regulator, the baby sucks milk easily and it shows that at the first month of this 68% and in second month 77% of babies who suffered stomachache and flatulence decreased</p>	

4-Pretty baby	
CHINA	
125ml	
Q/YJB01-2005	
15/8/2009 -15/8/2012	
Health Notice #Before and after using, please disinfect with special disinfecting pot for nursing bottle or put the bottle in the boiled water more than 3 minutes. #Please check the nipple and bottle frequently, if there is any scratch and crack, lease change for a new one. #Please don't leave the baby alone to use the bottle, and the nipple cant be used for toy or comforting nipple. Storage:#Keep it in ventilated and sanitary place and keep away from fire	
Characters of product:The bottle was adopted in the environmental protection material of PC of imported food level, which is light and easy to wash, in high intensity, hard to break; It can stand the high temperature of 120°C without softening or out-of shape. #Nipple is made of silica gel of food level it is the most proper material for nipple, in high security, easy to suck, no choke, no overflow, and no out-of-shape. #This product has met the required standard of National Health of China, and the patterns on the bottle are made of safety ink, which is innoxious and harmless, no carcinogen like lead metal. The patterns are colorful, bright, permanent and scientific to nurse your baby. Baby-Care Design #The design of double-handle can help baby with the ability of eating and holding. Baby can hold with one hand or both hands, which can make baby suck the milk comfortably in sitting or lying state. #The design of caring babies, with the nipple is similar with mothers nipple, it can help with baby's buccal healthy growth for needing the muscles strength of tongue and mouth. #Sieve design in neck makes sure that the nipple will not be gluey, blocked and etc. when sucking, it makes suck more comfortable and naturally.	

\_\_\_\_\_:

(1) 1989 1525

(11) 1961

TSI

(2) 1988 2662

(12) 1990 969 -2533

:

$5 \pm 120$

(autoclave)

250

pH

230 nm

200 nm

:

24

%1

24

(elasticity)

:

75

25

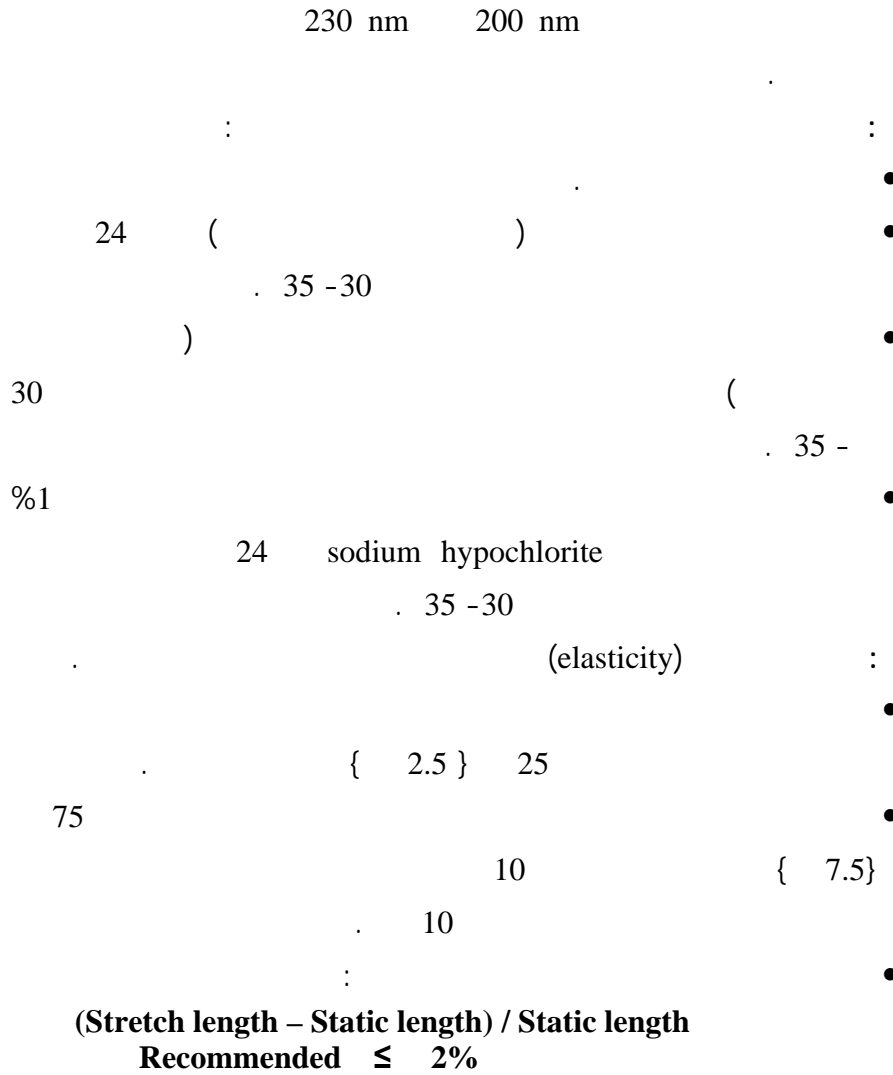
10

:

250

pH

120



24

( 6 ) :

:(6)

1		24		(ml)	(16)	
(gm)	(gm)	(gm)	(gm)			
20.56	20.51	20.58	20.47	60	AiZhilang ALGO	1
39.51	39.45	41.56	41.04	240	APPLE	2
43.15	43.09	43.29	43.18	240	Panberas	3
45.71	45.67	45.26	45.19	125	Pretty baby	4

pH

200 nm

230 nm

120

-200

230

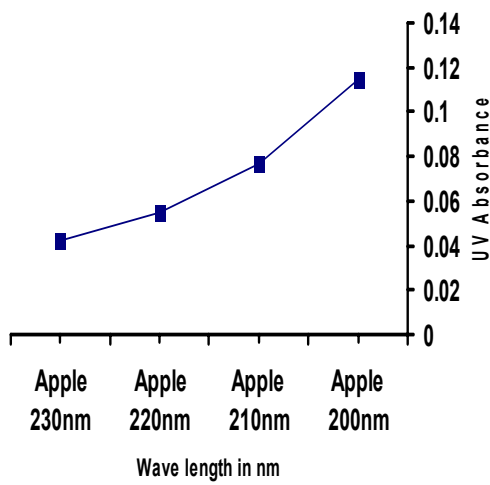
( 7 )

:

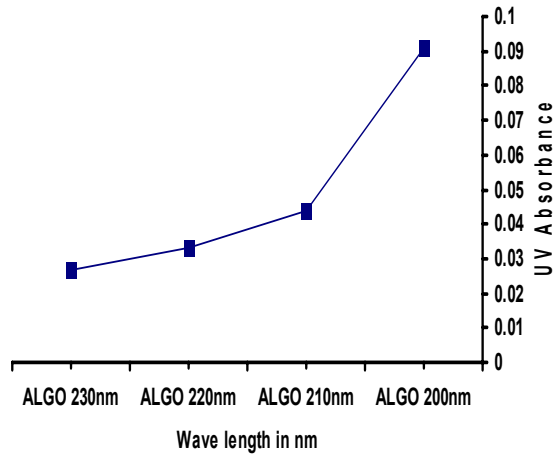
:(7)

( nm )				pH		(ml)	16	
230	220	210	200					
0.027	0.033	0.044	0.091	6.51		60	AiZhilang ALG	1
0.042	0.055	0.077	0.115	6.68		240	APPLE	2
0.01	0.09	0.087	0.101	6.33		240	Panberas	3
0.186	0.218	0.340	1.211	6.04		125	Pretty baby	4

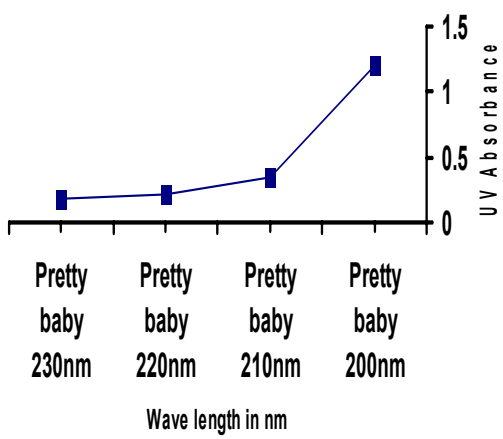
( 7 6 5 4 )



:(5)  
Apple

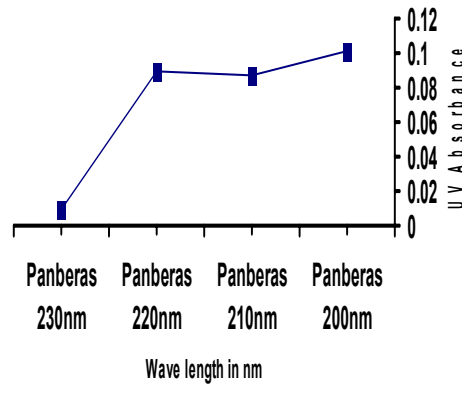


:(4)  
ALGO



(7):

Pretty baby



(6):

Panberas

( 7 6 5 4 )

%20  
%2

( 8 )

%1

:(8)

%1

%1		(ml)	16	
24	( )			
20.59	20.53	60	AiZhilang ALGO	1
41.09	41.01	240	APPLE	2
43.22	43.16	240	Panberas	3
45.71	45.66	125	Pretty baby	4

.1

polypropylene :

.anti-colic :

:

non-toxic :

.phthalates :

:

:

.2

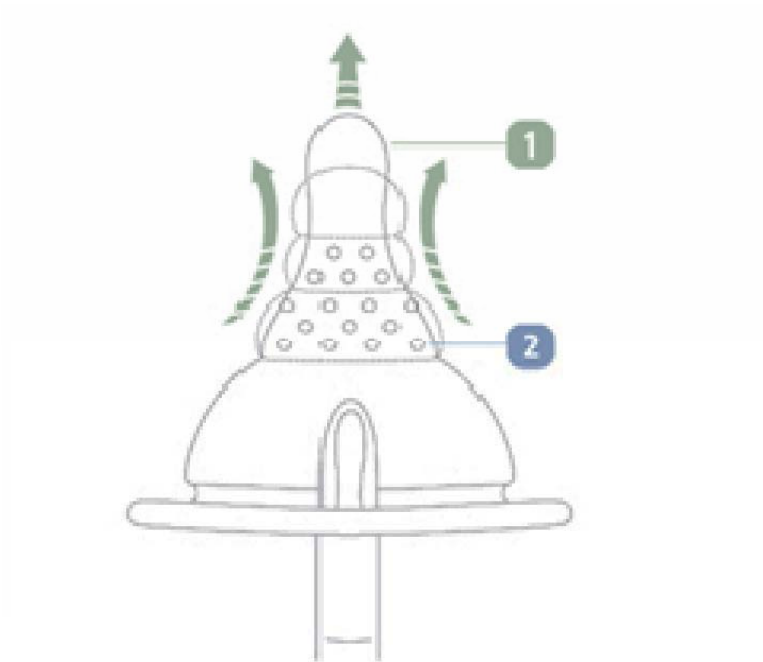
.3



.4

(8 ) 1

. 2



Stretches in response to the

:(8)

.5

polycarbonate

polypropylene

polyethylene

" 1989 (1525)

.6

"1988 2662

/ "

-

.(12)

.1 (1525) .(1989)

.2 (2662) .(1988)

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## **Evaluation of quality of some babies plastic teats and bottles available in local markets.**

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Abdul Alrasool Abas      Saleh Al Obaidi      Alfatlawi**

**Market research center and consumer protection  
University of Baghdad.**

### **ABSTRACT**

This research was dealing with the quality of some babies plastic teats and bottles that available in local markets, they are offered a good service and fast circulation. Where sixteen of four types of babies plastic teats and bottles have been drawn from market. Each type from this stuff has been subjected to four tests. In this research investigations have been carried for the faults present in these stuff such as glutinousness, debacle, and changes occurred in color during sterilization using steam under pressure in autoclave apparatus. This research was also dealing with some asides of chemical composition of baby feeding bottles and rubber teats regarding the reducing the negative effects or hangovers of using baby feeding bottles for long periods. During examining the absorption of water of the stuff their weights after immersing the babies plastic teats and bottles in cold water for 24 hr. and in boiling water for one hour were found slightly diverse. In this research a significant differences in pH values of the extraction solution were noticed after subjection of babies plastic teats and bottles for one hour to a temperature of  $120 \pm 5$  ° C using autoclave apparatus, as well as a significant differences were noticed in the absorption of the extraction solution at wave lengths between 200 nm and 230 nm using UV-spectrophotometer. The absorption spectra for samples been tested have indicated a transfer of organic substances from samples to water solution, these materials could be hazard to baby health. Significant differences in weights in this research were found during experiments to determine the absorption of the babies plastic teats and bottles towards chemical solutions using 1% of sodium hypochlorite and after immersing the stuff in this solution for 24 hr.