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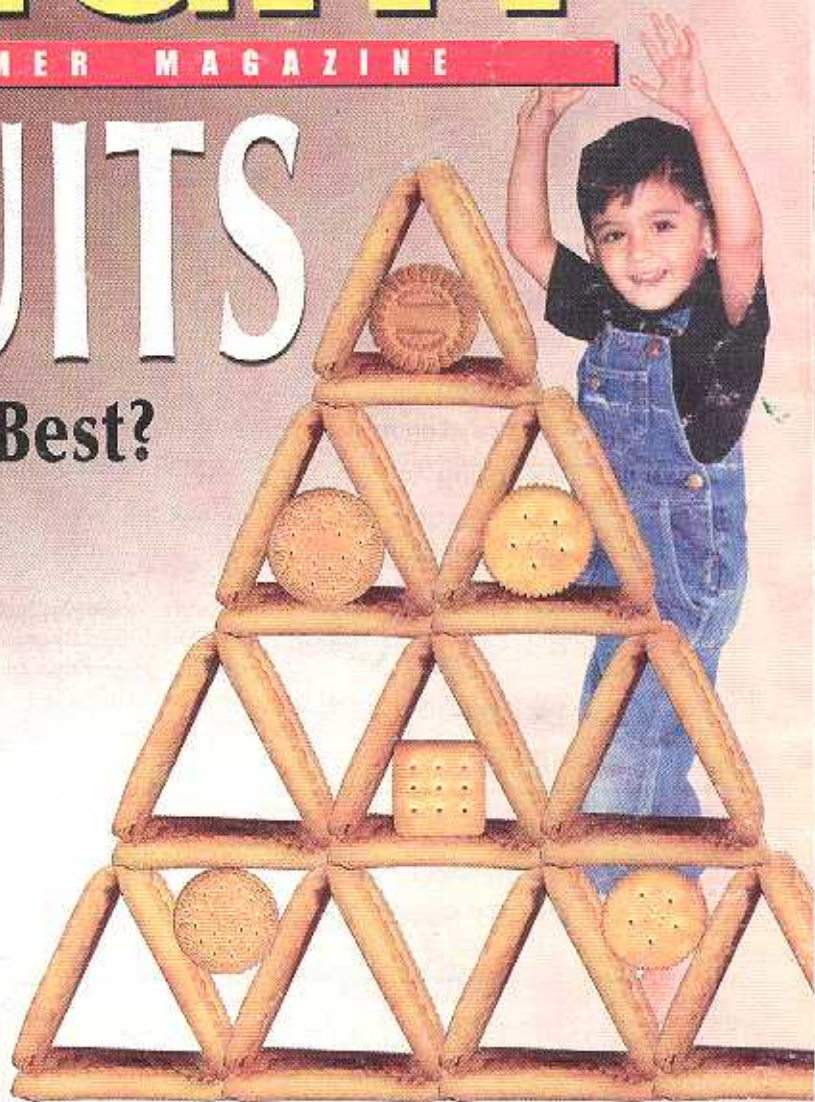
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THE CONSUMER MAGAZINE

BISCUITS

Which are the Best?



AYURVEDIC Eyedrops Found Contaminated





The Standards

The brands were tested against the parameters specified by the *Bureau of Indian Standards (BIS)* and the *Prevention of Food Adulteration (PFA) Act*. We also tested them for parameters where the BIS and the PFA Act are silent, eg. peroxide value as well as for nutritional value, that is the amount of their protein, fat, carbohydrate, calcium, sodium and iron. Also, our panellists tested the biscuits on sensory parameters like taste, mouthfeel, etc.



With a large number of brands, shiny packaging and glitzy ads, biscuits have become a part of our daily life. It's time to ask ourselves — what's their nutritional value, energy and sodium? How much glucose do glucose biscuits give? How good are biscuits sold loose?

We found higher sodium and fat content in crackers, that's the salted biscuits. Loose biscuits revealed lower fat and calories than the branded ones. But then some of them did not give a good taste and smell.

BISCUITS

Which are the Best?

After putting 19 brands and 200 biscuits each on average through chemical and sensory tests, that's a total of around 3800 biscuits, we found that not all gave a good taste

Brands Tested

We tested 19 brands and 6 loose ones of sweet and semi-sweet biscuits and crackers. See page 10 for the brands.

Were they Crisp?

Very often we open a pack of biscuits expecting crisp and crunchy ones. It's disappointing to find them so soft that we don't need teeth to bite into the biscuit. Our gums would have done the job. This happens if moisture content is high. Also, in such cases, microbes may spoil the biscuit. Biscuits must have a low moisture content to be crisp and to have a longer shelf life.

Although all the branded biscuits we tested were within the BIS level (not more than 5 per cent) for moisture, loose samples exceeded it. Loose sweet biscuit, *LS-2* and loose crackers, *LC-2* (5.3 per cent) and *LC-3* (5.4 per cent) may have a lower shelf life. Also, they might spoil soon. *Cremica Krackbite* (1 per cent) revealed the least moisture. Our sensory panellists too found it the crispest of all crackers.

Quality of Flour

Acid insoluble ash above the limits set by the PFA Act and the BIS may have adverse health implications.

Sweet Biscuits

According to the BIS, biscuits should not have more than 0.05 per cent acid insoluble ash. *LS-2* (0.05 per cent) barely conformed to the BIS. On the other hand, *Britannia Tiger* (0.01 per cent) was of good quality along with *Kellogg's Glucose*



and *Windsor Glucose*. *Britannia Nice Time* (0.10 per cent) did not conform to the BIS although it carried the BIS certification mark. But it complied with the PFA Act, which specifies not more than 0.1 per cent acid insoluble ash.

Crackers

The three semi-sweet biscuits conformed to the test for acid insoluble ash, but among the crackers, *Duke's Krack Krispy* barely conformed to the BIS. *LC-2* (0.07 per cent) and *LC-3* (0.06

Type of Biscuits

Sweet Biscuits

They have higher fat and sugar, although their fat content is lower than that of crackers. They are quite crisp and sweet. One example is *Parle G*.

Semi-sweet Biscuits

They are the likes of *Marie* — low in sweetness, low in fat and hard in texture.

Crackers

They are the **salted biscuits**, crisp and with a high fat content to get the crispness. eg. *50-50*, *Monaco* etc.



Key Findings

- We tested 19 brands and 6 loose ones of sweet and semi-sweet biscuits and crackers against the BIS and PFA Act.
- Moisture lowers shelf-life and crispness and may lead to spoilage of biscuit by microbes. Loose samples — **LS-2** and **LC-2** (5.3 per cent) and **LC-3** (5.4 per cent) did not conform to the levels of the BIS (not more than 5 per cent).
- Acid insoluble ash over the limits is not desirable. Among the sweet biscuits, **Britannia Tiger** (0.01 per cent) was of good quality along with **Kellogg's Glucose** and **Windsor Glucose**. **Britannia Nice Time** (0.10 per cent) did not meet the BIS (not more than 0.05 per cent) even though it carried the BIS certification mark. Among the crackers, **LC-2** (0.07 per cent) and **LC-3** (0.06 per cent) did not meet the BIS standard.
- Rancid biscuits give an off flavour and cannot be eaten. A high **acidity of extracted fat** indicates rancidity. The biggest problem with loose samples was rancidity. Among the sweet ones, **LS-3** (2.2 per cent) did not comply with the PFA Act (not more than 1.5 per cent). Among the crackers, **LC-3** (1.2 per cent) barely conformed to the BIS (not more than 1.2 per cent). **LC-1** (8.8 per cent) and **LC-2** (1.9 per cent) did not comply with the PFA Act nor did they conform to the BIS.
- A high **peroxide value** indicates short shelf-life of the biscuit and lack of freshness of ingredients. Among the sweet biscuits, loose samples showed more than double the values of branded biscuits. Loose crackers had more than 7 times the peroxide value of branded ones.
- Protein repairs the tissues and is needed for growth. Semi-sweet biscuits gave marginally higher protein than the crackers. Sweet ones offered the least.
- The higher the fat, the crisper the biscuit, which is why crackers come with higher fat content.
- Crackers in general came with less carbohydrates. ICMR recommends that about 60 per cent of our energy has to be from carbohydrates, not more than 30 per cent from fat and 10-12 per cent from protein. The brands gave 63-82 gm.
- Calcium helps to form and maintain teeth and bones. There wasn't a large difference between the three categories of biscuits in their calcium content.
- Sodium adds to the flavour and regulates the flow of fluids within the body. But people with a high blood pressure must control their sodium intake. Crackers and loose biscuits in the sweet category gave high sodium.
- Iron helps form haemoglobin and in transporting oxygen. **Britannia Nice Time** (9.8 mg) and **Parle-G** (8.4 mg) among the sweet biscuits, **Parle Marie Choice** (11.6 mg) among the semi-sweet ones and the loose crackers, gave a reasonable amount.
- Crackers, with the highest fat content, also carried the highest calories.
- **Bakeman's Gluco Gold** gave less than the labelled weight in 4 packs, **Cremica Glucose** in one, **Bakeman's Original English Marie** and **Cremica Salties** in 10, **Parle Krack Jack** and **Bakeman's Honie Lite**, in 6 samples out of 17.
- The two brands of **Windsor** did not give the complaint slip with the batch or code No. as required by the BIS.
- Sweet biscuits in general were priced the least and crackers the highest.
- In the sensory tests, among the sweet biscuits, **Britannia Tiger** and **Cremica Glucose** scored the highest in sensory tests. In case of semi-sweet biscuits, **Bakeman's English Marie** and **Britannia Marie Gold** scored the highest. Crackers found **Britannia 50-50** at the top in sensory parameters.
- Among the sweet biscuits, **Cremica Glucose**, **Parle G** and **Britannia Tiger** topped the list with 72, 71 and 70 respectively. **Bakeman's English Marie** and **Britannia Marie Gold** topped the semi-sweet biscuits with 76 and 75 respectively. Crackers saw **Britannia 50-50** at the top with 79.
- **Parle-G**, **Parle Marie Choice** and **Windsor Avanti** were the 'best buys' in sweet, semi-sweet and crackers, respectively.

per cent) too did not meet the BIS standard. **Britannia 50-50**, **Cremica Salties** and **Parle Monaco** showed the lowest levels of acid insoluble ash with just 0.01 per cent.

Rancidity

You would have noticed that fried snacks which have been stored for a long time give off a bad smell and taste. It indicates rancidity. Biscuits turn rancid either when the fat used in processing is rancid or if the biscuit is not fresh. High **acidity of extracted fat** indicates rancidity. This was the problem with the loose samples tested.

Crackers, with the highest fat content, also carried the highest calories.

Sweet Biscuits

LS-3 (2.2 per cent) did not comply with the PFA Act (not more than 1.5 per cent) nor did it conform to the BIS (not more than 1.2 per cent). The other two loose samples too recorded a higher figure than the figures of the branded biscuits.

Crackers

While all the semi-sweet biscuits did well, among the crackers, **LC-1** (8.8 per cent) showed the worst result, making it a highly rancid cracker. Also **LC-2** (1.9 per cent) did not comply with the PFA Act, nor did it conform to the BIS. **LC-3** (1.2 per cent) barely conformed to the BIS.

High **peroxide value** also indicates rancidity.





Nutrition

Biscuits are fast taking the place of snacks, especially with children and even with old people where nutrition is important. So we tested them for their nutritional value. To interpret the results we used the dietary allowances recommended by the *Indian Council of Medical Research (ICMR)* for Indian men and women. The allowances are for

NUTRITION

Brands	Protein gm	Fat gm	Carbo-hydrate gm	Calcium mg	Sodium mg	Iron mg	Energy Kilo-Calories
ICMR-RDA* Per Day-Man	60	20	—	400	1100-1300	28	2875
Woman	50	20	—	400	1100-1300	30	2225
SWEET							
Cremica Glucose	6.1	12.8	78	42	310	4.5	438
Parle-G	6.0	15.3	75	59	353	8.4	445
Britannia Tiger	6.3	12.9	77	125	430	2.3	434
Bakeman's Gluco Gold	6.2	14.9	76	42	315	2.1	450
Windsor Glucose	7.0	11.9	77	37	408	1.6	427
Kellogg's Glucose**	7.1	12.0	76	142	408	2.8	426
LS-1	6.1	9.0	81	58	465	2.6	413
NON-CONFORMING							
Britannia Nicetime	6.8	13.9	76	69	310	9.8	442
LS-2	7.2	5.5	81	54	435	6.0	384
LS-3	8.1	6.2	82	122	475	5.4	398
SEMI-SWEET							
Bakeman's English Marie	8.3	16.1	74	55	310	2.4	459
Britannia Marie Gold	8.1	12.0	75	56	340	3.9	426
Parle Marie Choice	7.3	9.6	80	106	410	11.6	419
CRACKERS							
Britannia 50-50	6.7	24.0	67	50	540	3.4	500
Cremica Crackbite	6.5	23.6	67	54	685	2.4	501
Bakeman's Honie Lite	7.5	17.8	70	71	530	2.2	458
Parle Monaco	7.0	24.6	63	58	1125	2.5	490
Parle Crack Jack	7.1	17.6	71	61	875	2.8	463
Parle Nimkin	7.8	21.9	64	46	1140	3.4	476
Duke's Crack Krispy	7.7	17.4	70	55	840	5.3	456
Cremica Salties	7.5	20.2	65	84	1094	3.4	462
Windsor Avanti	7.3	22.4	64	64	985	3.4	478
NON-CONFORMING							
LC-1	5.2	23.1	66	48	665	7.9	484
LC-2	9.1	13.5	69	65	905	5.5	425
LC-3	7.4	11.1	74	51	643	7.2	411

* RDA - Recommended Dietary Allowance

● Nutrition results are per 100 gm of biscuits



moderately active people and for men weighing 60 kg and for women weighing 50 kg.

Protein

Protein heals the wear and tear in tissues. Also, it is needed in the growth of infants and children, for the development of foetus, and for producing milk in nursing mothers. The ICMR recommends 60 gm protein for men and 50 gm for women per day. A 100-gm pack of the three kinds of biscuits gave less than 10 gm protein. But semi-sweet biscuits gave marginally higher protein than the crackers. Sweet ones offered the least.

Fat

The higher the fat, the crisper is the biscuit, which is why, crackers contain higher fat. Fat in biscuits gives them a smooth, glazed texture, makes them more palatable, gives longer shelf-life, improves flavour and adds energy. According to the ICMR, the recommended desirable visible fat intake per day is 20 gm for both men and women. Next time you open a pack of biscuits, count the fat you are taking in. A 100-gm pack of sweet and semi-sweet biscuits can easily give 50 to 75 per cent of our daily fat requirement. Beware of too many crackers. They can give 90 to 120 per cent of the desirable intake.

Carbohydrate

About 50 to 70 per cent of our calories

come from carbohydrates, making them the most important source of energy. Crackers in general gave less carbohydrates, high fat and more energy. ICMR recommends that about 60

per cent of our energy has to be from carbohydrates, not more than 30 per cent from fat and 10-12 per cent from protein. The brands gave 63-82 gm.

Calcium

We need calcium to form and maintain our teeth as well as bones. The ICMR prescribes 400 mg of calcium

Also, lower the peroxide value, longer the shelf-life and fresher the ingredients. The PFA Act and the BIS are silent regarding this parameter.

Among the sweet biscuits, loose samples showed more than double the peroxide values of branded biscuits.



per day for adults. But biscuits like **Kellogg's Glucose** (142 mg), **Britannia Tiger** (125 mg) and **Parle Marie Choice** (106 mg) had over two times the calcium content as the others.

Sodium

This is present in biscuits, due to salt, baking soda and agents needed for fermentation. Sodium adds to flavour and regulates the flow of fluids in our body. According to the recommended daily allowances in the US, an adult can have sodium in the range of 1100-3300 mg.

Cremica Salties claimed to give just 700 mg sodium per 100 gm. Our tests

showed 1094 mg. You would do well to take label claims with a pinch of salt.

Iron

Iron helps form haemoglobin and in transporting oxygen. According to the ICMR, daily requirement of

iron for men is 28 mg per day. For women, it is 30 mg. Apart from **Britannia Nice Time** (9.8 mg) and **Parle-G** (8.4 mg) among the sweet biscuits, **Parle Marie Choice** (11.6 mg) among the semi-sweet ones and the loose crackers, the other brands were low on iron, ranging from 1.6 to 5.3.

With crackers, it was worse. It was more than 7 times the peroxide value of branded crackers. It is wiser, therefore, to avoid loose biscuits. **LC-1** with a peroxide value of 278.3 gave off a very bad smell. It came at less than half the price of most branded crackers. But can a low price offset bad flavour?

How Much Glucose?

Glucose biscuits sell the highest in India with more than 65 per cent market share, according to ORG-MARG. Many of us give them to children and the sick for the glucose content. But how much glucose do glucose biscuits give us? While the total sugar content in the *glucose biscuits* ranged from 21.62 to 27.56 per cent, the glucose content was just 1.64 (**Bakeman's Gluco Gold**) to 3.77 per cent (**Britannia Tiger**).

Britannia Tiger was the only brand that didn't highlight the presence of glucose in its name.

We wrote to the manufacturers that according to the PFA Act, the label should not contain any statement, claim, design, device, fancy name or abbreviation which is false or misleading.

Cremica Agro Foods Ltd. said that, the PFA Act states, "Provided that this rule shall not apply in respect of established trade or fancy names of confectionary, biscuits and sweets... in existence in international trade practice."

Windsor Foods Pvt Ltd. too quoted the same rule of the PFA Act. They also stated that, a glucose biscuit contains liquid glucose and sugar exceeding normally 20 per cent. It is a generic name in India and most biscuit manufacturers here, call it a glucose biscuit. Sugar is a complex form of glucose which ultimately gets converted to glucose during digestion.

Manufacturers may take recourse under the PFA Act, but we believe that if any ingredient in the biscuit is a part of the name or is displayed prominently on the pack, the ingredient must be present in substantial quantity. Otherwise it is misleading the consumers who in this case buy it for its glucose content. We shall take up the matter with the BIS and the PFA authorities, asking them to lay down standards regarding the amount of glucose in a *glucose* biscuit.

Black Particles

Did you ever come across black particles on the biscuit and wonder what they were and whether they were harmful? Here's an answer. They are just scorched or overheated particles of sugar, milk powder, shredded coconut or even overbaked flour particles. This



BISCUITS:RESULTS

Best Buy



The brand with a relatively high analytical and sensory score as well as a comparatively low price is our 'Best Buy'.

Sweet : *Parle-G* was the Best Buy.

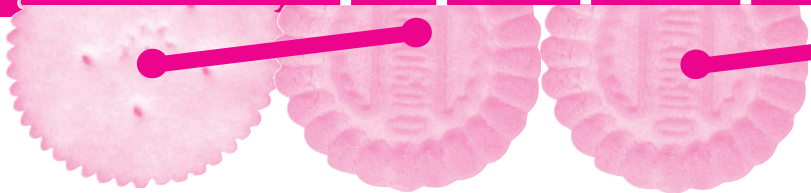
Semi-sweet : *Parle Marie Choice* was the Best Buy.

Crackers: *Windsor Avanti* was the Best Buy.



BRANDS/STANDARDS	RANK	SCORE	MRP (Rs/100 gm)*
BIS			
PFA ACT			
SWEET 			
<i>Cremica Glucose</i>	1	72	} 5.00
<i>Parle-G</i>	1	71	
<i>Britannia Tiger</i>	1	70	
<i>Bakeman's Gluco Gold</i>	2	68	5.00
<i>Windsor Glucose</i>	3	65	3.70
<i>Kellogg's Glucose**</i>	—	NA	4.00
LS-1	—	NA	4.00
NON-CONFORMING			
<i>Britannia Nicetime</i>	—	68	10.00
LS-2	—	NA	4.00
LS-3	—	NA	5.00
SEMI-SWEET 			
<i>Bakeman's English Marie</i>	1	76	} 6.00
<i>Britannia Marie Gold</i>	1	75	
<i>Parle Marie Choice</i>	2	65	5.00
CRACKERS 			
<i>Britannia 50-50</i>	1	79	8.67
<i>Cremica Krackbite</i>	2	76	8.00
<i>Bakeman's Honie Lite</i>	3	73	} 8.00
<i>Parle Monaco</i>	3	73	
<i>Parle Krack Jack</i>	3	72	
<i>Parle Nimkin</i>	3	71	8.00
<i>Duke's Krack Krispy</i>	4	69	8.00
<i>Cremica Salties</i>	5	67	8.00
<i>Windsor Avanti</i>	6	64	6.67
NON-CONFORMING			
LC-1	—	NA	3.60
LC-2	—	NA	4.00
LC-3	—	NA	4.00

WEIGHTAGE (%)





KEY	NM	= Not Mentioned
	■	= Did not comply with PFA Act
	✓	= Conformed to BIS
	X	= Did not conform to BIS
	NA	= Not Applicable
	NMT	= Not More Than
	●	< 45
	○	45-54
	○	55-64
	○	65-74
○	75-84	
○	85-94	
●	95+	

SCORE		CHEMICAL				SENSORY				
Chemical	Sensory	Moisture % NMT	Quality of Flour*** % NMT	RANCIDITY		Taste	Mouth- feel	Initial bite	After taste	Flavour
		5.0	0.05	(1) % NMT	(2) meq/kg					
		NM	0.10	1.2	NM					
				1.5	NM					
71	73	✓	✓	✓	0.6	○	○	○	○	○
70	71	✓	✓	✓	0.5	○	○	○	○	○
66	73	✓	✓	✓	1.3	○	○	○	○	○
65	69	✓	✓	✓	0.8	○	○	○	○	○
59	68	✓	✓	✓	1.9	○	○	○	○	○
63	NA	✓	✓	✓	2.1	—	—	—	—	—
51	NA	✓	✓	✓	8.3	—	—	—	—	—
52	79	✓	X	✓	1.3	○	○	○	○	○
45	NA	X	✓	✓	4.5	—	—	—	—	—
51	NA	✓	✓	X	5.4	—	—	—	—	—
74	77	✓	✓	✓	1.5	○	○	○	○	○
71	77	✓	✓	✓	2.1	○	○	○	○	○
53	73	✓	✓	✓	1.7	○	○	○	○	○
77	80	✓	✓	✓	0.8	○	○	○	○	○
71	79	✓	✓	✓	1.0	○	○	○	○	○
66	78	✓	✓	✓	0.8	○	○	○	○	○
64	78	✓	✓	✓	1.0	○	○	○	○	○
66	75	✓	✓	✓	0.5	○	○	○	○	○
62	77	✓	✓	✓	0.7	○	○	○	○	○
57	78	✓	✓	✓	2.0	○	○	○	○	○
60	71	✓	✓	✓	1.0	○	○	○	○	○
55	70	✓	✓	✓	3.1	○	○	○	○	○
2	NA	✓	✓	X	278.3	—	—	—	—	—
36	NA	X	X	X	1.2	—	—	—	—	—
44	NA	X	X	✓	21.9	—	—	—	—	—
40	60	16	8	8	8	20	20	20	15	15

* MRP has been calculated per 100 gm.

** No sensory tests done since packs were not available.

*** Quality of flour = Acid insoluble ash

} = The brands have been grouped together since the difference in score is not significant.

● Sensory tests were not done for loose samples. Brands were also tested for total ash and crude fibre. All brands passed in tests for fungus and insect infestation and non-permitted colour.

● We have been informed by Britannia Industries Ltd. that production of **Snax** has been discontinued since May 2002. So we have not discussed the results as they are of no relevance to consumers now.

● **Rancidity** : (1) Acidity of Extracted Fat (2) Peroxide Value. (meq = mili equivalent)
LS-1, LS-2, LS-3 of sweet biscuits and LC-1, LC-2, LC-3 of crackers are loose samples.



can happen during baking and the occasional scorched particle cannot be avoided.

What they Weighed

Windsor Glucose on an average gave an extra 30 gm+ per 500-gm pack. But *Bakeman's Gluco Gold* gave less than the labelled weight in 4 packs and *Cremica Glucose* in one. In the semi-sweet ones, *Bakeman's Original English Marie* gave less in 10 packs. Among crackers, *Cremica Salties* gave less in 10 and *Parle Krack Jack* and *Bakeman's Honie Lite*, in 6 of 17 packs.

Labelling

The two brands of *Windsor* did not carry a complaint slip giving the batch or code no. as per the BIS.

Price

We calculated the prices of all brands per 100 gm for comparison. Sweet biscuits in general were priced the least. *Windsor Glucose* (Rs 3.70) was priced lower than some loose ones. We had bought *LS-1* and *LS-2* for Rs 4. Semi-sweets were higher in price, with *Britannia Marie Gold* at Rs 7. Crackers were the highest priced, with *Britannia 50-50* and *Parle Monaco* priced over Rs 8.50 for 100 gm. Loose crackers were at or slightly over Rs 4.

Rating and Ranking

We gave a 40 per cent weightage to chemical tests and 60 per cent to sensory tests. In general, the best

performers in chemical tests also ended up at the top of the list in sensory parameters. Within the chemical tests, tests for nutrition carried 60 per cent and other chemical tests carried a 40 per cent weightage. Among the sensory parameters, taste, mouthfeel and initial bite carried the highest weightage of 20 per cent each.

Overall Score

Among sweet biscuits, *Cremica Glucose*, *Parle G* and *Britannia Tiger* scored the highest with 72, 71 and 70 respectively.

Bakeman's English Marie and *Britannia Marie Gold* topped the semi-sweet biscuits with 76 and 75 respectively. *Parle Marie Choice* came a distant third with 65.

Crackers saw *Britannia 50-50* at the top with 79. *Windsor Avanti* ended up at the bottom of the list with 64.

Sensory Tests

Among the sweet biscuits, *Britannia Tiger* and *Cremica Glucose* scored the highest in sensory tests. In case of semi-sweet biscuits, *Bakeman's English Marie* and *Britannia Marie Gold* scored the highest. Crackers found *Britannia 50-50* at the top in sensory parameters.

Manufacturers' Response

As a policy, we convey the test results to all the manufacturers, irrespective of whether their brands have passed or failed. The results are posted to their registered offices by Registered A.D./Courier. All manufacturers receive the test results of their own product only and are given two weeks from the date of receipt to respond.

Bakeman's Industries Pvt. Ltd., manufacturers of Bakeman's Gluco Gold, Original English Marie and Honie Lite said that weight variation in their packs was less than 1 per cent on average. The law allows 7 per cent variation. But their endeavour to produce defect-free products would continue.

Our Response: Every pack must weigh what is printed on the

label. Consumers must get the quantity they pay for.

Britannia Industries Ltd., manufacturers of Britannia Tiger, Nice Time, Marie Gold and 50-50 said that, acid insoluble ash is not always a result of contamination. It may also result through higher content of bran in flour (which is a desirable component of atta, brown bread, etc.) and higher mineral content present in natural ingredients. Our Response: The biscuits tested must comply with the PFA Act and conform to the BIS.

Windsor Foods Pvt. Ltd., manufacturers of Windsor Glucose and Windsor Avanti, said that the complaint slip was included in the carton. From now on, they would include it on the label itself.

Manufacturers of Parle, Duke's and Kellogg did not respond.

Areas of Action

- The PFA Act and the BIS must lay down standards for the presence of glucose where brands claim to be glucose biscuits.
- The PFA Act should lay down limits for all chemical parameters like moisture, total ash, crude fibre, peroxide value, fungus and insect infestation, foreign matter and non-permitted colours.
- Labelling nutritional values like protein, fat, carbohydrate, calcium, sodium, iron, total calories should be made compulsory by the standards.

Manufacturers' Addresses

Bakeman's Inds. Ltd., A-5/B-1 Mohan Co-op Estate, New Delhi-110044

Britannia Inds.5/1A Hungerford Street Kolkata - 700017

Cremica Agro Foods Ltd., B-XXXIII-324, GT Rd(W) Nr.Jalandhar Bypass,Ludhiana-141005

Duke's Krack Krispy, Ravi Foods Pvt. Ltd., 7-4-112/1 Madhuban Clny Rd, Hyd-500077

Kellogg India Ltd., 5th Flr, East Wing, Metropolitan Bldg, Bandra-Kurla Complex, Bandra (East), Mumbai-400051

Parle Products Ltd., Nirlon House, Worli, Mumbai-400025

Windsor Foods Ltd., NHW-8, Makarpura, Vadodara

For queries or price details of bulk copies of test report, write to us at askinsight@yahoo.co.in, indicating the no. of copies. n