All foods have an acidic or alkalising effect in the body, but it is crucial to know

whether the diet is more acidic or alkalising effect in the body, but it is crucial to know a whether the diet is more acidic or alkaline so that a daily balance is maintained, as latent acidosis is linked to chronic disease and ill health.

To understand the acid/alkaline nature of foods, the USDA (United States Department of Agriculture) developed a formula that calculates the acidifying effects of food when eaten, according to their levels of alkalising minerals and acidic producing proteins.

Based on this formula, an easy reference table was produced that provides the potential renal acid load (PRAL) of many foods—the PRAL Table. By using the PRAL Table, it is possible to estimate whether the diet is overly acidic or more alkaline in nature, or in balance.

Many scientific studies have validated the accuracy and usefulness of the PRAL Table in estimating the acidic load of any given diet.

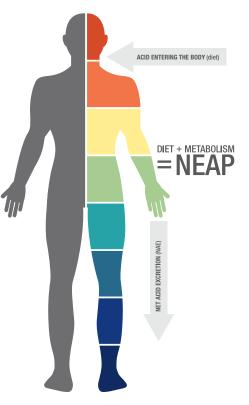
The PRAL provides a unique tool for practitioners and patients to analyse potential dietary acid loads and take the appropriate steps to include more alkalising foods and supplements, if necessary. It is not a diet but a guide to the potential acid/alkaline balance of the diet.

The effects of an acidic diet

The Standard Australian Diet (SAD) produces an average of more than 100 mEq/ day of acid but our bodies can only excrete approx. 40-60mEq/per day of acid. The kidneys process the majority of this acid load, which is why we refer to foods as having a potential renal acid load (PRAL).

Our net endogenous acid production, or NEAP, is made up of the foods we eat plus our metabolism. If we are eating a highly acidic diet, it will increase the NEAP and put an extra load on our acid buffering systems and the ability of our kidneys to excrete the acid.

The potential effect of a long-term imbalance (acid in vs acid out) is a state of latent acidosis or chronic mild metabolic acidosis, which, as stated earlier, has been linked to poor health and chronic disease.





ALKALINE FOODS (- PRAL values per 100g)

Vegetables	,					LOW ME	DIUM HIGH
Artichokes Asparagus Beets Broccoli Cabbage Capsicum, green Carrot	- 3.2 - 0.4 - 4.9 - 4.0 - 2.8 - 1.4 - 5.7	Cauliflower Chicory Cucumber Edamame Eggplant Frozen mixed vegetable Garlic	- 4.0 - 2.0 - 0.8 - 0.5 - 3.4 - 2.8 - 1.7	Gherkin, pickled Green beans Leeks Lettuce, average Mushrooms Onions	- 1.6 - 3.1 - 1.8 - 2.0 - 1.4 - 1.5	Potato Pumpkin Radish, red Sauerkraut Tomato Zucchini	- 4.0 - 3.8 - 4.4 - 3.0 - 3.1 - 4.6
Artichokes, Jerusalem Avocado Beetroot Brussel sprouts Celery	- 5.7 - 8.2 - 5.8 - 5.5 - 5.2	Chives Collards Dandelion greens Endive Fennel	- 5.3 - 5.7 - 7.9 - 6.0 - 7.9	Ginger, fresh Kale Kohlrabi Mustard Greens Parsnips	- 7.9 - 7.8 - 5.5 - 6.8 - 5.8	Rocket (Arugula) Rutabaga Sweet Potato Watercress	- 7.8 - 5.0 - 6.5 - 5.7
Chard	- 12.2	Spinach	- 14.0				
Oriental Vegetables							
Maitake Nori	- 0.8 - 3.4	Shitake	- 1.7	Spirulina	- 2.7	Wakame	- 1.3
Bamboo shoots	- 7.9	Pak choy	- 5.1				
Fruits Apple (average) Apricot Blackberries Blueberry, fresh Grapes Grapefruit	- 2.2 - 4.3 - 2.8 - 1.2 - 3.9 - 3.5	Honeydew melon Lemon Lime Mango Mulberries Nectarine	- 4.4 - 2.6 - 1.7 - 3.0 - 2.9 - 3.1	Orange Papaya Peach Pear Pineapple	- 2.8 - 4.0 - 3.1 - 2.1 - 2.2	Plums Pomegranate Raspberries Strawberries Tomato	- 2.6 - 3.2 - 2.4 - 2.5 - 3.1
Avocado Banana	- 8.2 - 5.5	Currants	- 6.5	Fruit straps	- 5.9	Kiwi fruit	- 5.6
Banana chips, dehydrated	- 10.2	Dates - medjool	- 13.6	Raisins	- 14.4		
Vegetarian Protein							
Chestnuts, water -tinned	- 1.5	Hazelnuts	- 3.1	Soy beans, green, raw	- 3.7		
Chestnuts, European raw	- 8.9						
Pumpkin seeds	- 14.3						
Spices & Seasonings							
Garlic, fresh	- 2.6	Salt	- 0.5				
Basil, fresh Chilli, fresh	- 6.5 - 5.3	Cocoa powder	- 9.8	Coriander, fresh	- 9.5	Ginger, fresh	- 7.9
Cumin seeds, dried Chilli powder	- 32 - 31.4	Dill, fresh Ginger, dried powder	- 16 - 24.5	Parsley, fresh Parsley, dried	- 11 - 52	Rosemary, fresh	- 16.4
Alcohol							
Beer	- 0.2						
Drinks							
Apple juice Apricot nectar Coconut milk, canned	- 2.2 - 2.1 - 1.6	Coffee, black Grapefruit juice, pink Herbal tea (average)	- 1.4 - 3.0 - 0.2	Lemon juice Orange juice Tomato juice	- 1.9 - 3.6 - 3.4	Pineapple juice Vegetable juice (average Water	- 2.7 - 3.8 0
Coconut water	- 5.12						
Fats & Oil							
Coconut oil	0	Fish oil	0	Flaxseed oil	- 0.08		
Other							
Mustard	- 1.14	Tomato Sauce	- 2.08	Goats milk	- 0.54		
Chocolate dark 70-80%	- 6.68						

ACID-FORMING FOODS (+ PRAL values per 100g)

Animal Protein		(HIGH	MEDIUM LOW
Clams Corned beef Egg yolk (chicken) Goose Liver (beef)	+ 12.55 + 13.2 + 23.4 + 13 + 15	Lobster/crayfish Luncheon meats (average) Mussels Organ meats (average) Prawns	+ 10.35 + 10.5 + 15.3 + 15 + 17.5	Rabbit Salami Salmon Sardines	+ 19 + 11.6 + 13.5 + 13.3	Scallops Trout Tuna Venison	+ 13.3 + 10.8 + 14.9 + 15.4
Beef Carp Chicken Cod	+ 7.8 + 8.0 + 8.7 + 7.1	Duck Eggs whole (chicken) Fish (average) Frankfurts	+ 8.4 + 8.2 + 8.0 + 6.8	Lamb Pork Sausages (average)	+ 7.6 + 7.6 + 8.5	Shrimp Turkey Veal	+ 7.6 + 9.9 + 9.0
Egg white (chicken)	+ 1.1	Oysters (raw)	+ 1.9				
Grains, Breads & Pasta							
Oats (rolled)	+ 12.5	Rice (brown)	+ 12.5				
Amaranth Bread sourdough Bread Pita wholewheat Cornflakes	+ 7.5 + 6 + 5.9 + 6	Flour (average) Macaroni Millet Pasta	+ 7.5 + 6.1 + 8.6 + 6.5	Rice cakes Rusk Spaghetti	+ 7.7 + 5.9 + 6.5	Spaghetti, wholemeal Spelt Wheat	+ 7.3 + 8.8 + 8.2
Barley Bread (average) Buckwheat	+ 5 + 3.8 + 3.7	Corn cob cooked Corn/cornstarch Pasta, gluten free rice base	+ 0.3 + 3.8 + 4.41	Pumpernickel Quinoa Rice, wild cooked	+ 4.2 + 2.4 + 2.0	Rice, white Rye	+ 1.7 + 4.4
Beans & Legumes	+ 6.16	White beans	+ 5.64				
Chick peas Green peas	+ 2.5 + 1.2	Kidney beans	+ 0.7	Lentils	+ 3.5	Pinto Beans	+ 1.25
Nuts & Butters							
Tahini	+ 18.7						
Brazil nuts Cashews	+ 8.1 + 8.9	Peanut butter (processed)	+ 7.35	Peanuts	+ 8.3	Walnuts	+ 6.8
Pecans	+ 2.1	Pistachios	+ 2.0	Almonds, raw	+ 3.1		
Dairy							
Cheese Blue vein Cheese Brie	+ 12.0 + 11.2	Cheese Feta Cheese Quark	+ 11.2 + 11.1	Cheese hard (average) Cheese, high protein (average)	+ 18.6 + 23.6	Cheese, low fat chedda Cheese, Parmesan	r + 26.4 + 34.2
Cheese, Cottage	+ 8.7	Cheese low protein (average)	+ 8	Cheese ricotta	+ 6.2		
Butter Buttermilk	+ 0.6 + 0.5	Cream Ice cream	+ 1.2 + 0.6	Milk, cows Sour cream	+ 1.1 + 1.2	Yoghurt, cows	+ 1.5
Vegetables Alfalfa sprout	+ 1.7	Peas, frozen (cooked)	+ 2.2				
Alcohol							
Distilled spirits	+ 0.11	Wine	+ 0.03				
Drinks Carbonated drinks	+ 0.05	Coca cola	+ 0.4	Soy milk	+ 1.3		
	0.00		5.1		.10		
Vegetarian Protein	+ 14.4	Sunflower Seeds dried	+ 11.6				
Tempeh	+ 6.6						
Tofu	+ 1.5						
Sweets & Sugars							
Crackers, wheat low fat	+ 5.84						
Crackers, arrowroot	+ 4.47	Cake (average)	+ 3.70	Cookies, choc chip low fat	+ 2.39	Milk chocolate	+ 2.40
Other Gelatin	+ 41.76						