## Hot Sauce & w Guacamole



## The secret of hot stuff!!!

It is all about... capsaicin. Capsaicin is a pungent compound that binds to your pain receptors (nociceptors). While similar to compounds found in vanilla, ginger and pepper, capsaicin stimulates a totally different center in the brain and brings the pain.



**INGREDIENTS** 

Mango-Pineapple Hot Sauce

- Sugar & Salt
- Lemon & Lime Juice
- Habañero

The citric acid in lemon and lime juice adds some sour flavor and inhibits browning of the fruit.



apsaicin is non-polar/hydrophobi nd therefore, not water soluble. (ashing down hot food with cold ater just spreads capsaicin to ore pain receptors. Oily or fatty ods like whole milk will dissolve



Xanthan gum is a complex polysaccharide and a little of it goes a long ways to make your hot sauce thick and stick to those chips.

## Directions

Lose the seeds Most of the capsaicin is careful to leave the placenta (the ribs) behind. in the placenta not the Blanch the fruit of the pepper in boiling vinegar.

Reserve the cooled vinegar.

Add all ingredients except xanthan gum (2 cups mango, 1 cup canned or fresh pineapple with some juice, ¼ tsp cumin, 1 tsp sugar and 1 tbsp molasses, ½ cup each lemon and lime juice, 1 tsp ginger and salt to taste). Blend or puree until

Add vinegar, salt, lime or lemon juice to taste. If - - you desire more heat, add more peppers.

Sprinkle 1/8 tsp xantham gum and pulse mix with immersion or stand blender. Allow the gum to hydrate before adding more. It may take more than an hour to fully thicken...

**Hot Sauce Basics** A simple hot sauce is made by blending hot peppers with vinegar. Fermentation helps extract and create new flavors. Tabasco hot sauce is made this way

#### Acid Helps

The lowered pH of hot sauce due to lemon and lime juice as well as vinegar acts as a preservative. Few . strains of bacteria are able to easily grow.

seeds. The thick coating on the seeds has alkaloid compounds which are bitter and will detract from your hot sauce.

Make it Stick Most sauces will separate over a short period of time. Xantham gum (a flavorless polysaccharide made by fermentation of three simple sugars), will bind

water and "hold" water in

## Guacamole



#### · Avocados · Red Onion

- Lime
- Roma Tomatoes Cilantro

place.

- Salt
- De-seeded Jalapeño or Poblano
- Cayenne Cumin

**INGREDIENTS** 

• Garlic Clove, Minced

## More Acid

Once opened, the avocado releases polyphenol oxidase. This enzyme reacts with oxygen and the phenols from the cell wall to create a brown, bitter product. This "little bit of nasty" is an antimicrobial defense mechanism of the fruit. Besides tasting good, lime juice helps slow down the enzyme activity.

## More Pungent



Skin and scoop the avocado flesh and immediately mix with lime juice. Mash the mixture but do not blend to a smooth paste. Allow the "chunks" of avocado to hit your pallet and create a contrast to the blended paste mixed with the spices

Add salt, cumin and cayenne and fold in with onions, tomatoes, cilantro and garlic.

Serve after one hour at room temperature.

### Did you know?

# Salsa

