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**From:** Carmines, Edward L.  
**Sent:** Monday, April 12, 2004 5:07 PM  
**To:** Schorp, Matthias  
**Subject:** RE: One more on Kreteks

**DSS:**

The Sampoerna had 18.29 mg/cig of eugenol in the filler and yielded 14 mg of tar and 217 ug/mg eugenol in the smoke.  
You can calculate the transfer by  $(14 \times 217) / 27 = 17\%$   
For the Garam the calculation would be  $(42 \times 208) / 43.24 = 20\%$

So if we assume 2%, 5% and 10%:  
 $20 \text{ mg/cig} \times 20\% = 4 \text{ mg/cig} = .4 \text{ mg/mg tar}$   
 $5\% \gg 1 \text{ mg/mg tar}$   
 $10\% \gg 2 \text{ mg/mg tar}$   
Hope this helps  
Ed

-----Original Message-----

**From:** Schorp, Matthias  
**Sent:** Thursday, April 08, 2004 12:44 PM  
**To:** Carmines, Edward L.; Nixon, Gerry M.  
**Subject:** One more on Kreteks

Just a minor question in addition to the previous e-mail:

The PMRL report on smoke chemistry of two Kreteks (Sampoerna Mild 14 mg tar, Gudang Garam International 42 mg tar) lists an eugenol MS yield of 217 and 208 ug/ mg tar, respectively. Is there a way to predict the ug eugenol/mg tar yield of our test cigarettes with 2, 5 and 10% eugenol?

With best regards,

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