

EXHIBIT 2

02/09/2026

Kathleen Moller vs Martian Sales, Inc., et al.
Christopher Williams, Ph.D.

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UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF LOUISIANA

KATHLEEN MOLLER

Civil Action No.
2:24-cv-228-WBV-DPC

VS.

MARTIAN SALES, INC.;
JOPEN, LLC; JOHNSON
FOODS, LLC; RMH HOLDINGS,
INCL; ABC INSURANCE
COMPANY AND JOHN DOES 1-4

* * * * *

VIDEOTAPED DEPOSITION OF
CHRISTOPHER WILLIAMS, Ph.D.

February 9, 2026

Held at Wagar Hickman, LLC
1401 West Causeway Approach
Mandeville, Louisiana 70471

Reported stenographically by:

Rita A. DeRouen, CCR, RPR
(CCR #2014018)
(RPR #006908)

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1 Q. And would you agree that mitragynine has
2 been shown to recruit little -arrestin?

3 A. Correct.

4 Q. Looking back at page 2, the next part of
5 that block paragraph on page 2 says, "7-HMG has
6 tenfold greater potency than morphine and
7 significantly increased latency in response to
8 noxious stimuli in studies of analgesia.

9 "Collectively, these studies demonstrate
10 that Kratom contained alkaloids which rival the
11 potency of clinically available opioids like
12 morphine in experimental models."

13 Did I read that correctly?

14 A. Yes.

15 Q. Here, when you state that 7-OH is
16 tenfold more potent than morphine, you're
17 referring to purified, experimentally administered
18 7-OH, correct?

19 A. Correct.

20 Q. And that's a considerably higher
21 concentration than 7-OH found in natural Kratom,
22 correct?

23 A. By definition, because it's purified.

24 Q. Are you familiar with the products at
25 issue in this lawsuit?

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1 cases.

2 Q. You agree that mitragynine, not 7-OH, is
3 the dominant alkaloid in the Kratom products at
4 issue in this lawsuit, correct?

5 A. Correct.

6 Q. And you're aware that mitragynine shows
7 no evidence of respiratory depression even in
8 extremely high doses in controlled studies,
9 correct?

10 A. Pardon me, I'm visualizing the graphics.
11 I'm just kind of going through the images in my
12 mind. There does not seem to be respiratory
13 suppression associated with purified mitragynine.

14 Q. And is it fair to say that mitragynine,
15 the dominant alkaloid in Kratom, does not behave
16 like morphine?

17 A. No, that's -- that would be inaccurate,
18 because that would assume that there's only one
19 way to act like morphine.

20 Q. How -- in your opinion, how does it act
21 like morphine?

22 A. As kind of delineated in the report, it
23 activates those receptors, it binds the K
24 receptors as well. So even though it does not
25 have the same potency and maybe not even the same