

Union Calendar No. 531

118TH CONGRESS
2D SESSION

H. R. 8663

[Report No. 118–634]

To require the Science and Technology Directorate in the Department of Homeland Security to develop greater capacity to detect, identify, and disrupt illicit substances in very low concentrations.

IN THE HOUSE OF REPRESENTATIVES

JUNE 7, 2024

Mr. LALOTA (for himself and Mr. CORREA) introduced the following bill;
which was referred to the Committee on Homeland Security

AUGUST 23, 2024

Additional sponsor: Mr. DAVIS of North Carolina

AUGUST 23, 2024

Committed to the Committee of the Whole House on the State of the Union
and ordered to be printed

A BILL

To require the Science and Technology Directorate in the Department of Homeland Security to develop greater capacity to detect, identify, and disrupt illicit substances in very low concentrations.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLES.**

4 This Act may be cited as the “Detection Equipment
5 and Technology Evaluation to Counter the Threat of
6 Fentanyl and Xylazine Act of 2024” or the “DETECT
7 Fentanyl and Xylazine Act of 2024”.

8 **SEC. 2. ENHANCING THE CAPACITY TO DETECT, IDENTIFY,**
9 **AND DISRUPT DRUGS SUCH AS FENTANYL**
10 **AND XYLAZINE.**

11 Section 302 of the Homeland Security Act of 2002
12 (6 U.S.C. 182) is amended—

13 (1) in paragraph (13), by striking “and” at the
14 end;

15 (2) in paragraph (14), by striking the period at
16 the end and inserting “; and”; and

17 (3) by adding at the end the following:

18 “(15) carrying out research, development, test-
19 ing, evaluation, and cost-benefit analyses to improve
20 the safety, effectiveness, and efficiency of equipment
21 and reference libraries for use by Federal, State,
22 local, Tribal, and territorial law enforcement agen-
23 cies for the accurate detection of drugs or the dis-
24 ruption of drug trafficking for drugs such as
25 fentanyl and xylazine, including, but not limited to—

1 “(A) portable equipment that can detect
2 and identify drugs with minimal or no handling
3 of the sample;

4 “(B) equipment that can separate complex
5 mixtures containing low concentrations of drugs
6 and high concentrations of cutting agents into
7 their component parts to enable signature ex-
8 traction for field identification and detection;
9 and

10 “(C) technologies that use machine learn-
11 ing or artificial intelligence (as defined in sec-
12 tion 5002 of the National Artificial Intelligence
13 Initiative Act of 2020 (15 U.S.C. 9401)) and
14 other techniques to predict whether the sub-
15 stances in a sample are controlled substance
16 analogues or other new psychoactive substances
17 not yet included in available reference librar-
18 ies.”.

19 **SEC. 3. REQUIREMENTS.**

20 In carrying out section 302(15) of the Homeland Se-
21 curity Act of 2002, as added by section 2, the Under Sec-
22 retary for Science and Technology shall—

23 (1) follow the recommendations, guidelines, and
24 best practices described in the Artificial Intelligence
25 Risk Management Framework (NIST AI 100–1) or

1 any successor document published by the National
2 Institute of Standards and Technology; and
3 (2) establish the Directorate of Science and
4 Technology's research, development, testing, evalua-
5 tion, and cost-benefit analysis priorities under such
6 section 302(15) based on the latest available infor-
7 mation, including the latest State and Territory Re-
8 port on Enduring and Emerging Threats published
9 by the Drug Enforcement Administration or any
10 successor document.

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