

**IN THE UNITED STATES PATENT AND TRADE  
BEFORE THE PATENT TRIAL AND APPEALS BOARD**

Petitioner's Demonstrative Exhibit

April 4, 2019

KVK-Tech, Inc., Petitioner, v. Shire, LLC, Patent

IPR2018-00290 (US Patent No. 8,841,111)

IPR2018-00293 (US Patent No. 9,111,111)

# Patent Owner's Three IR, DR, SR Amphetamine Patents

- **Burnside** 09/807,462 (filed 09/20/09)
  - Issued 6,605,300 (EX.1002, ¶18)
  - **IR+DR/SR** (EX.1002, ¶18)
- **Couch** 10/353,073 (filed 10/20/10)
  - Published as US 2009/0270001 (EX.1023, ¶18)
  - **IR+SR** (EX.1023, ¶18)
- **Sojai** 11/383,066 (filed 11/20/11)
  - Issued as US 8,846,211 (EX.1023, ¶18)
  - **IR+DR+SR**

# Where is the IR Bead Released?

- Immediately “upon o  
(Burnside, EX.1002, 4
- In the stomach (Dr. T  
Polli, EX.2060 ¶38).

# Where is the DR Bead Released?

- “The entire dose is released when the enteric coating dissolves (EX.1002, 4:4-10.)
- If the enteric coating dissolves, the DR bead in Adderall is released (EX.1002, 11:8-10; P. 10)
- If the enteric coating dissolves at pH 6.8 (pH 6.8 is the pH of the stomach)

## PH in GI Tract(EX.1039)

Transit Time (ped.):

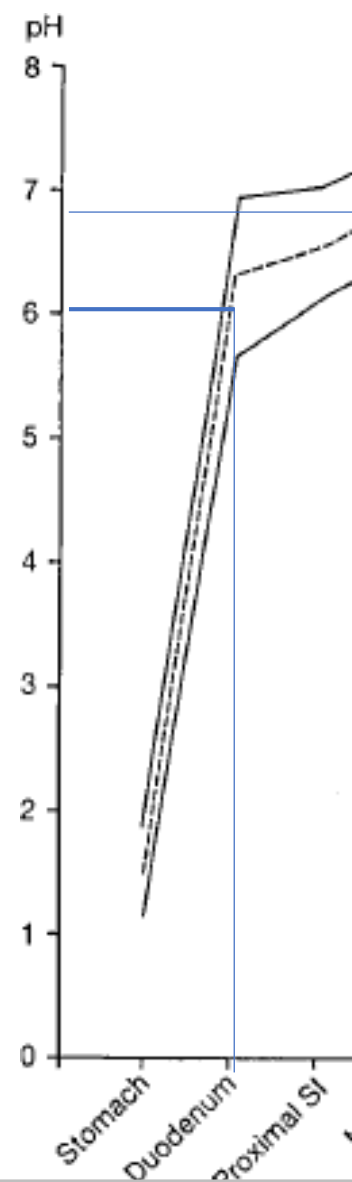
Stomach: 1.1 hr.

Small Intestine: 7.5 hr.

Colon: 17.3 hr.

(EX.1040)

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