



**<sup>a</sup>Possible Explanations for Unexpected Results**

**Unexpected Positive Result**

- Unexpected nonprescribed drug was taken/administered
- Drug was added to urine after voiding
- Drug detected is a process impurity of the expected drug
- Cross-reacting nondrug substance(s)
- Analytical error

**Unexpected Negative Result**

- Drug was not taken/administered
- Substituted or dilute urine
- Drug delivery was poor or variable
- Poor cross-reactivity for drug analytes of interest
- Test not designed to detect analyte(s) of interest

Source: McMillin GA, Slawson MH, Marin SJ, et al. [Demystifying analytical approaches for urine drug testing to evaluate medication adherence in chronic pain management](#). *J Pain Palliat Care Pharmacother*. 2013;27(4):322-339.