HITACHI
Inspire the Next

分光光度計による食品分析

レシオビーム分光光度計 U-5100/ダブルビーム分光光度計 UH5300

Food Analysis for UH5100 and U-5300 Spectrophotometer

Science for a better tomorrow

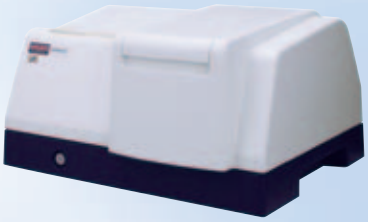
特　長　～Feature～

- **自動6セルターレットの標準装備により簡便な操作性とハイスループットな測定が実現可能**
  Simple operation and high-throughput measurement are achieved by a 6-cell turret as standard.
- **充実したオプションで長光路や短光路の測定など様々な要望に対応可能**
  A wide range of accessories is available to support various application such as short and long path length.
- **長寿命光源キセノンフラッシュランプ※1で環境にやさしい低消費電力を実現**
  Environmental friendly Xe flash lamp is a low-power consumption, long-life light source※1.

※1 1波長、300測定/日、240日/年の使用で10年相当
It is assumed ten years under the measurement conditions of 1wavelength, 300 measurements / days, 240 days / year (U-5100)

U-5100

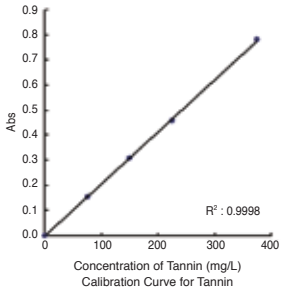
測定イメージ
Measurement image

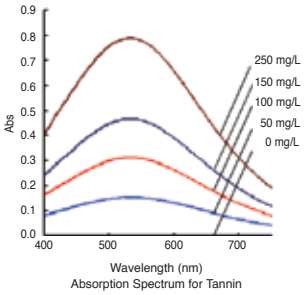


UH5300

測　定　～Measurement～

日本茶中のタンニン分析
Tannin analysis of Japanese tea



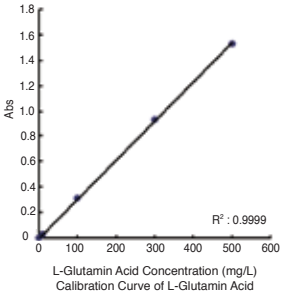


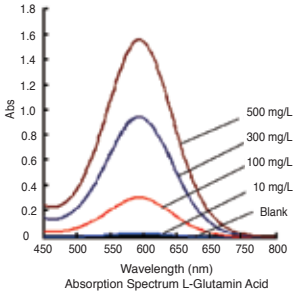
お茶抽出液の添加回収率
Addition Recovery Test for Tea Extract

Tea extract	Tea extract + 75 mg/L addition	Recovery rate
91.0 ± 2.1 mg/L	166.7 ± 0.0 mg/L	101 ± 2 %

n = 3

アルコール飲料中のL-グルタミン酸分析
L-Glutamine Acid analysis of alcoholic drink





甘酒の添加回収率
Addition Recovery Test for Sweet Sake

Sweet sake	Sweet sake + 100 mg/L addition	Recovery
254 ± 2 mg/L	351 ± 2 mg/L	97.5 ± 2.3%

n = 3

- **測定キットを使用すると、簡単なステップで目的成分の吸光度分析が可能です。※2**
  - 飲料中のL-アスコルビン酸
  - ハム中の亜硝酸イオン
  - 醤油中のエタノール 等

- **It is possible to measure absorbance of target component with easy step when measurement kits are used.※2**
  - L-ascorbic acid in drink
  - Nitrite ion in ham
  - Ethanol in soy sauce

※2 測定キットについては測定キット販売各メーカーへお問い合わせください。詳細な測定方法は弊社ホームページS.I.navi内のアプリケーションデータをご確認ください。
Please contact the measurement kit maker for the effects of interference substances. For more information, please refer to the our HP "S.I.navi."