



Novachem *Cannabis Standards*

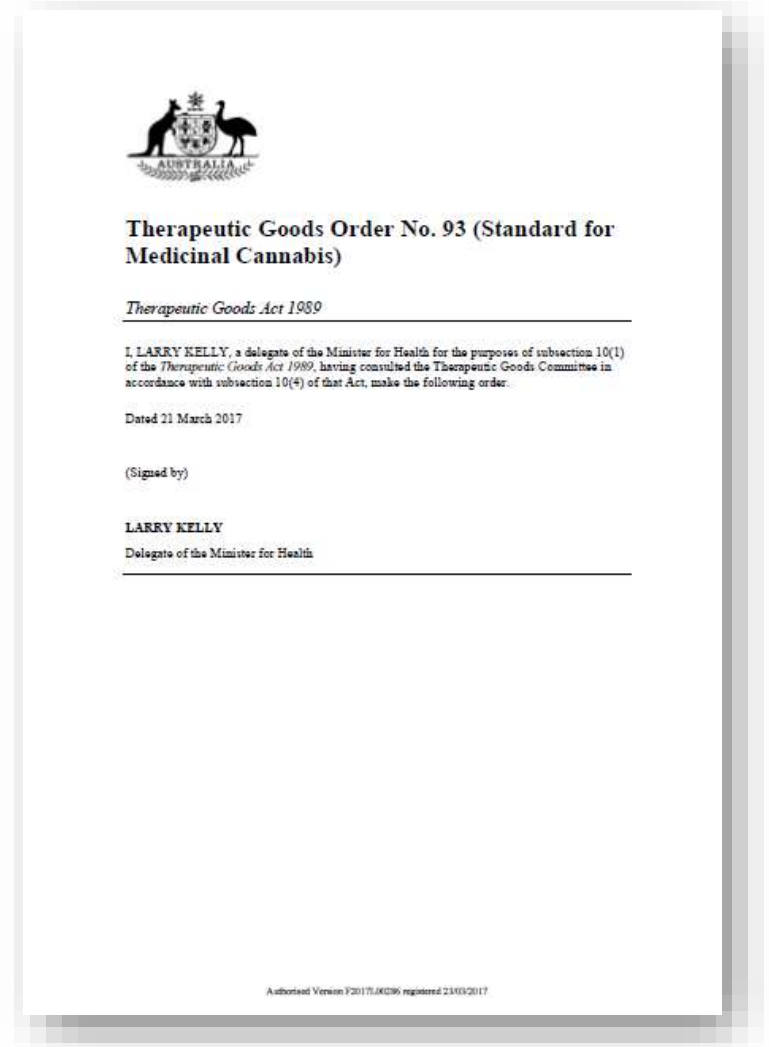
Testing and quality control
for medicinal cannabis

Overview

- Testing requirements
- Secondary tests
- The schedules S4, S8, S9 – what is what
- Reference materials
- Proficiency testing
- Product quality verification (Vericann[®])

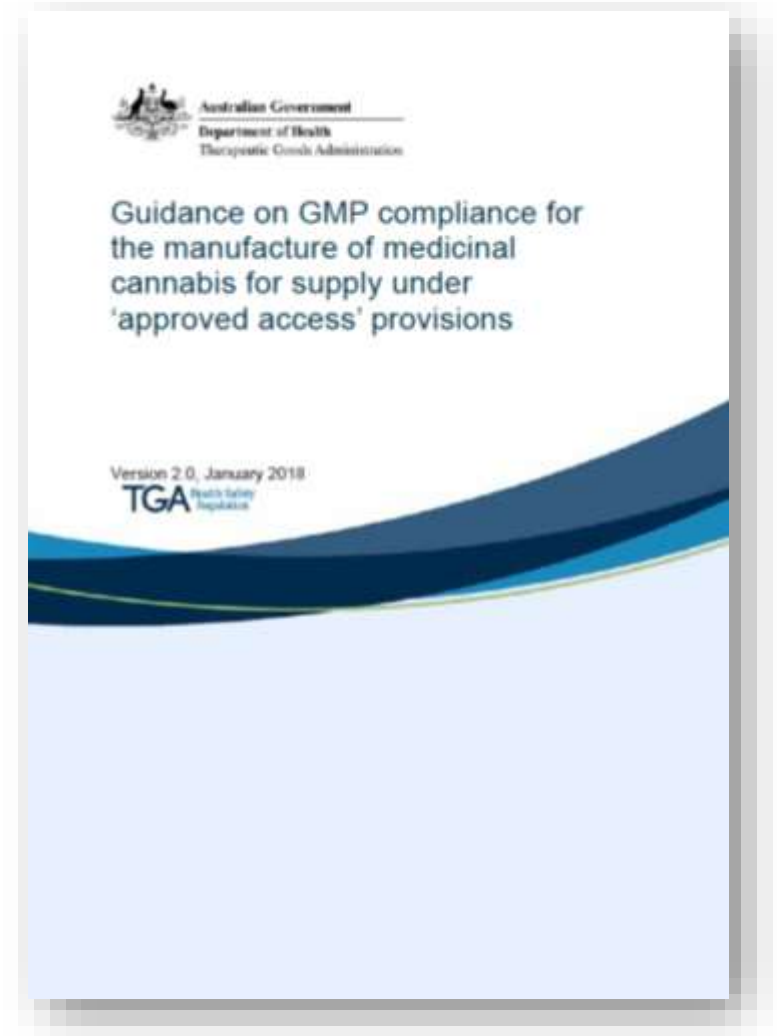
Testing requirements

- TGA Order 93
 - THC / THCA and CBD/CBDA
 - +/- 20% of stated content for herbal
 - +/- 10% of stated content for oils
 - Aflatoxins Ph Eur 2.8.18
 - Foreign Matter Ph Eur 2.8.2
 - Heavy Metals Ph Eur 2.4.27
 - Ochratoxin A Ph Eur 2.8.22
 - Pesticides Ph Eur 2.8.13
 - Total Ash Ph Eur 2.4.16



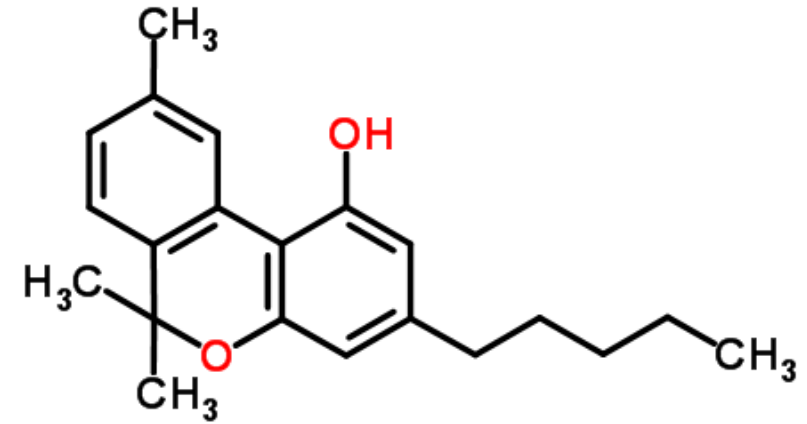
Testing requirements

- TGA Order 100
 - Microbiological Standards for Medicines
- TGA Order 101
 - Standard for tablets, capsules and pills
- GMP Compliance
 - Part of Manufacturing PIC/S Guide to GMP



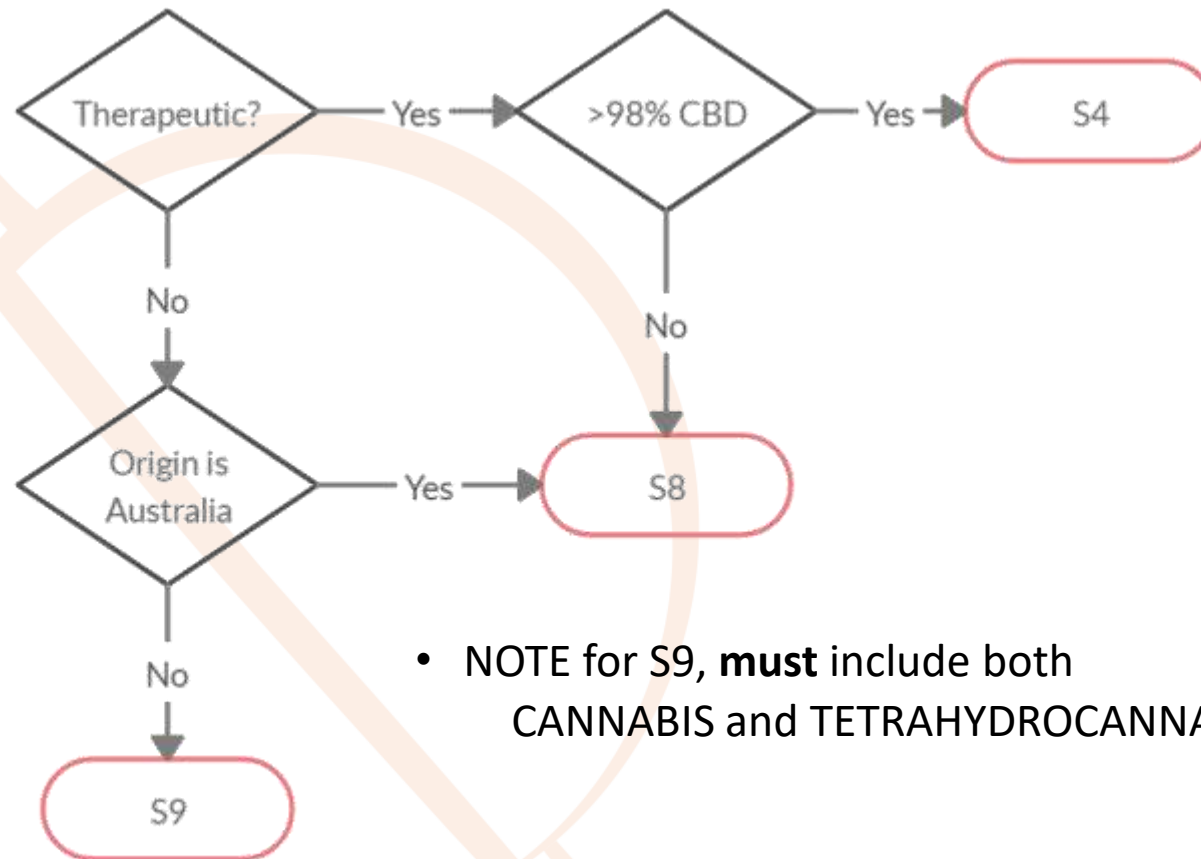
Secondary tests

- Cannabinoids
 - Cannabinol (CBN)
 - ** important degradation product of THC and CBD
 - Cannabigerol (CBG)
 - Cannabichromene (CBC)
 - Cannabidivarin (CBDV)
 - (±)-Cannabicyclol (CBL)
 - Tetrahydrocannabivarin (THCV)
 - (-)-delta8-THC
- And respective acid forms (decarboxylation...)
- Terpenes

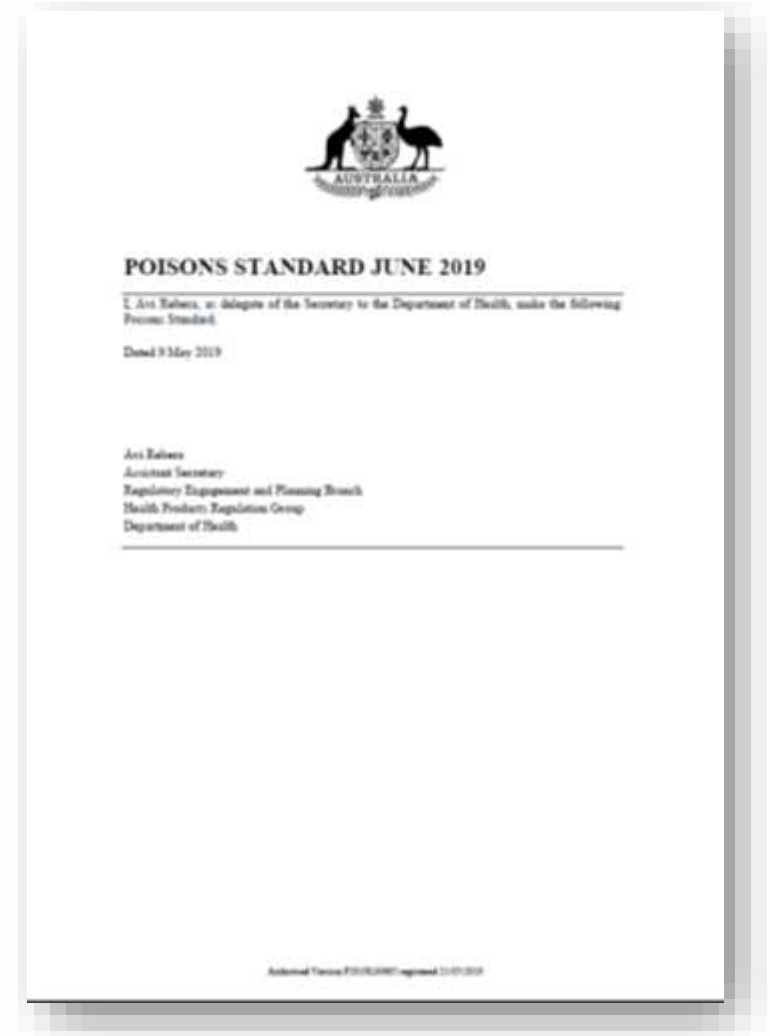


The schedules S4, S8, S9

- The Poisons Standard June 2019



- NOTE for S9, **must** include both CANNABIS and TETRAHYDROCANNABINOLS



Reference materials

- Cerilliant
 - Cannabinoids THC, CBD etc.
 - Certified reference materials
 - ISO 17034
 - ISO 9001
 - Tested under ISO 17025
 - Deuterated analogues for quantitation
 - All Australian based stock, next day delivery

- ALL SCHEDULE 9 (S9)



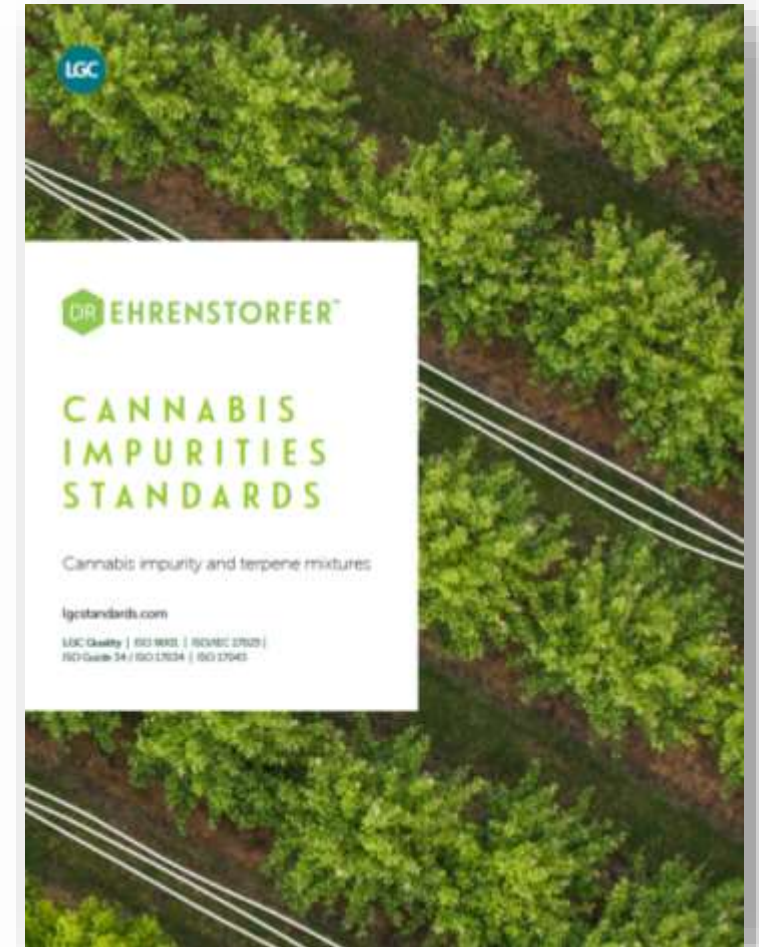
Cerilliant®

novachem
superior standards

Reference materials

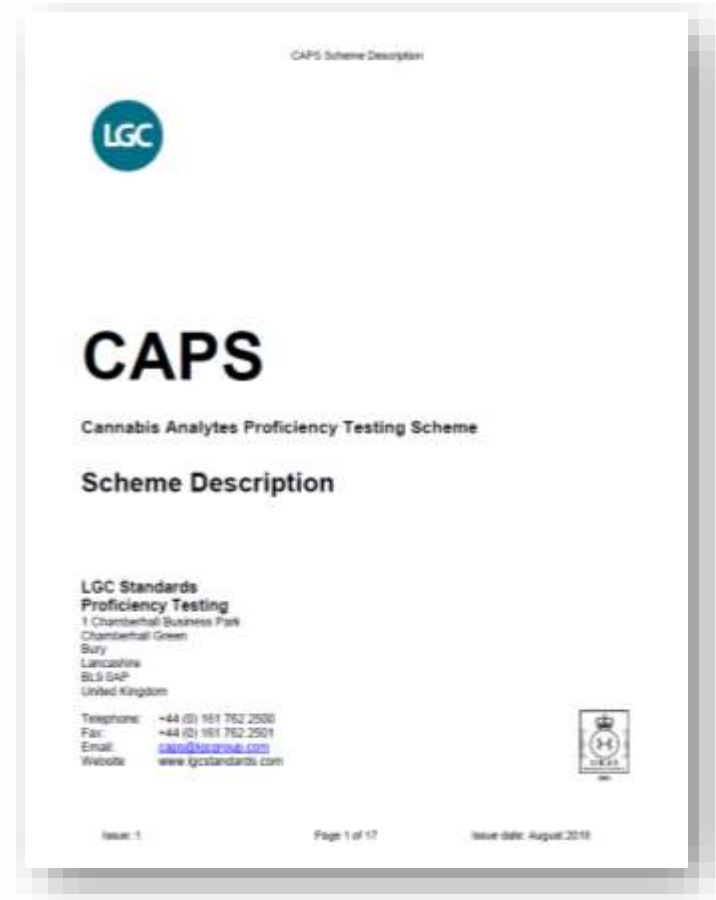
- Pesticides
 - Dr Ehrenstorfer / AccuStandard
- Terpenes
 - AccuStandard / Dr Ehrenstorfer
- Ochratoxin A / Mycotoxins
 - LGC Standards
- Heavy Metals
 - LGC / VHG / AccuStandard

Custom mixes for EP / TGA Order 93 Available



Proficiency testing

- For ISO 17025, PT is required
- Currently being developed with LGC Standards
- Initial schemes currently Q1 2020
- Incorporates all TGA tests
- Expressions of interest sought now



Vericann[®] product certification

- ISO 9001:2015 Quality Assured
- Provide external product labels
- Online batch and serial number tracking
- Visible verification of meeting TGA criteria
- Fully independent verification process
- Find out more – vericann.cc

